# APPENDIX R
# AXYS LABORATORY
# REPORTS

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## SOLID SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG71538**

**Analysis WG71043**

## 18 February 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**SOLID SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**
**4095:** L32482-1 to -15

**Project name: P1007/60608807**
**Work order number: 3000025335**

**18 February 2020**

## NARRATIVE

This narrative describes the analysis of fifteen solid samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 18th of December, 2019. The temperature of the samples upon receipt was 4.5°C, marginally exceeding the method recommend sample arrival temperature requirement (<4°C). The samples were stored frozen at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG71043; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples for the analysis batch consisted of a laboratory procedural blank sample, a laboratory-generated reference sample referred to as an Ongoing Precision and Recovery (OPR) sample, a matrix spike sample, and a duplicate of the matrix spike sample. The laboratory procedural blank and OPR samples were prepared using a reference solid as the matrix. Sample MW4A-soil-74-75-03-121319 (SGS AXYS ID: L32482-11) was used to make the MS/MSD samples.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 5 grams of each sample was accurately weighed. After addition of isotopically labelled surrogate standards, the sample was extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants were combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution was diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate was spiked with recovery standards and analyzed by LCMS/MS.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard CS1 or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L32482-X; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS IDs with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

The laboratory qualifiers used to report results were as follows:

J = concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RL)
V = surrogate percent recovery was not within method/contract control limits
U = identifies a target analyte that was not detected

Results were reported with concentration units of nanograms per gram (ng/g) on dry weight basis. Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

QC samples were prepared alongside the field samples and carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, laboratory procedural blank, precision and labeled compound recovery specifications were met with the following exceptions:

In the continuing calibration verifications (FC0L_022 S:32), the surrogate compound 13C 8:2 FTS was observed above the method control limit. As the native analyte 8:2 FTS was observed within method specifications, this is deemed not to have any effect on the data.

Percent recoveries of several surrogates in the client samples were observed to be outside the method limits and these surrogates have been flagged with a 'V' on the report forms. As the isotope dilution method of quantification produces data that are recovery corrected, the slight variance from the method acceptance criteria is deemed not to affect the quantification of these analytes. Percent surrogate recoveries are used as a general method performance indicator only.

**ANALYTICAL DISCUSSION**

No analytical difficulties were encountered.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup, DPWG71538. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)

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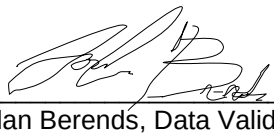
**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**



Signed: Jordan Berends, Data Validation Chemist

18-Feb-2020
Date Signed

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**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 06**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue and AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] |
|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 530-2100 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 |
| Perfluoroalkyl sulfonates | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Fluorotelomer sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | 40 |
| Perfluorooctane sulfonamides | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamide ethanols | 8 | 5300 | 0.8 | 1.6 | 2.0 | 100 |
| Per- and polyfluoroether carboxylates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |
| Ether sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |

1 Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

2 A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

3 A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

4 A maximum of 2 g of tissue may be analyzed.

5 A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. Other AFFF products such as fluoroprotein foams maybe be analyzed using this method, but need special handling. Consult product Safety Data Sheets (SDS) and other information before confirming. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS.

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Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

### Perfluorooctane sulfonamidoacetic acids

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)


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**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)

Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction

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(SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**List of Surrogate and Recovery Standards**

| Surrogate Standards | Recovery Standards |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_4$-PFOA |
| $^{13}C_4$-PFHpA | $^{13}C_5$-PFNA |
| $^{13}C_8$-PFOA | $^{13}C_2$-PFDA |
| $^{13}C_9$-PFNA | $^{18}O_2$-PFHxS |
| $^{13}C_6$-PFDA | $^{13}C_4$-PFOS |
| $^{13}C_7$-PFUnA | |
| $^{13}C_2$-PFDoA | |
| $^{13}C_2$-PFTeDA | |
| $^{13}C_3$-PFBS | |
| $^{13}C_3$-PFHxS | |
| $^{13}C_8$-PFOS | |
| $^{13}C_2$-4:2 FTS | |
| $^{13}C_2$-6:2 FTS | |

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| | |
|---|---|
| $^{13}C_2$-8:2 FTS | |
| $^{13}C_8$-PFOSA | |
| $D_3$-N-MeFOSA | |
| $D_5$-N-EtFOSA | |
| $D_3$-N-MeFOSAA | |
| $D_5$-N-EtFOSAA | |
| $D_7$-N-MeFOSE | |
| $D_9$-N-EtFOSE | |
| $^{13}C_3$-HFPO-DA | |

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where} \quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

## 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes and Quantification References

| Target analytes | Quantified using |
|---|---|
| PFBA | $^{13}C_4$-PFBA |
| PFPeA | $^{13}C_5$-PFPeA |
| PFHxA | $^{13}C_5$-PFHxA |
| PFHpA | $^{13}C_4$-PFHpA |
| PFOA | $^{13}C_8$-PFOA |
| PFNA | $^{13}C_9$-PFNA |
| PFDA | $^{13}C_6$-PFDA |
| PFUnA | $^{13}C_7$-PFUnA |
| PFDoA | $^{13}C_2$-PFDoA |
| PFTrDA | $^{13}C_2$-PFTeDA |
| PFTeDA | $^{13}C_2$-PFTeDA |
| PFBS | $^{13}C_3$-PFBS [1] |
| PFPeS | $^{13}C_3$-PFHxS |
| PFHxS | $^{13}C_3$-PFHxS |
| PFHpS | $^{13}C_8$-PFOS |
| PFOS | $^{13}C_8$-PFOS |
| PFNS | $^{13}C_8$-PFOS |
| PFDS | $^{13}C_8$-PFOS |
| PFDoS | $^{13}C_8$-PFOS |
| 4:2 FTS | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | $^{13}C_2$-8:2 FTS |
| PFOSA | $^{13}C_8$-PFOSA |
| N-MeFOSA | $D_3$-N-MeFOSA |
| N-EtFOSA | $D_5$-N-EtFOSA |
| N-MeFOSAA | $D_3$-N-MeFOSAA |
| N-EtFOSAA | $D_5$-N-EtFOSAA |
| N-MeFOSE | $D_7$-N-MeFOSE |
| N-EtFOSE | $D_9$-N-EtFOSE |
| HFPO-DA | $^{13}C_3$-HFPO-DA |
| ADONA | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | $^{13}C_3$-HFPO-DA |

[1] If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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| Surrogate standards | Quantified using |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | $^{13}C_4$-PFOA |
| $^{13}C_8$-PFOA | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_9$-PFNA | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | $^{13}C_4$-PFOS |
| $^{13}C_2$-4:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | $^{13}C_2$-PFHxA |
| **Recovery standards** | **Quantified using** |
| $^{13}C_3$-PFBA | External |
| $^{13}C_2$-PFHxA | External |
| $^{13}C_4$-PFOA | External |
| $^{13}C_5$-PFNA | External |
| $^{13}C_2$-PFDA | External |
| $^{18}O_2$-PFHxS | External |
| $^{13}C_4$-PFOS | External |
| $^{13}C_3$-PFBA | External |

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) |
|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 |

Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater

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## DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid And AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] |
|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 |
| | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 |
| | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 |
| | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] |
| $D_5$-N-EtFOSA | 20-150 | [2] |
| | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] |
| $D_5$-N-EtFOSAA | 50-150 | [2] |
| | | |
| $D_7$-N-MeFOSE | 30-150 | [2] |
| $D_9$-N-EtFOSE | 30-150 | [2] |
| | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

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## SGS AXYS Analytical Services Ltd.

### QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL. |

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| QC Parameter | Specification |
|---|---|
| | Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Anion Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |



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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90 day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies. For aqueous samples under DoD accreditation, the sample hold time is ≤14 days.

[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement. For samples under DoD accreditation the extract hold time is ≤28 days with storage at room temperature.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Solid Samples** |
| **Data Package Identification: DPWG71538** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG71043-101 |
| OPR | WG71043-102 |
| MATRX SPIKE | WG71043-103 |
| MATRX SPIKE DUPLICATE | WG71043-104 |
| | |
| MW4A-soil-8-8.5-01-121319 | L32482-1 |
| MW4A-soil-20-21-01-121319 | L32482-2 |
| MW4A-soil-21-23-01-121319 | L32482-3 |
| MW4A-soil-31-32-01-121319 | L32482-4 |
| MW4A-soil-37-38-01-121319 | L32482-5 |
| MW4A-soil-38-40-01-121319 | L32482-6 |
| MW4A-soil-50-52-01-121319 | L32482-7 |
| MW4A-soil-68-70-01-121319 | L32482-8 |
| MW4A-soil-74-75-01-121319 | L32482-9 |
| MW4A-soil-74-75-02-121319 | L32482-10 |
| MW4A-soil-74-75-03-121319 | L32482-11 |
| MW4A-soil-60-62-01-121319 | L32482-12 |
| MW4A-soil-80-81-01-121319 | L32482-13 |
| MW4A-soil-85-86-01-121319 | L32482-14 |
| MW4A-soil-88-89-01-121319 | L32482-15 |
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www.axysanalytical.com

SGS AXYS

# CHAIN OF CUSTODY



2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60608807
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MNA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| MW4A-soil-8-8.5-01-121319 | soil | 12/13/19 | 905 | HDPE/1 | L32482-1 | X | | | |
| MW4A-soil-20-21-01-121319 | soil | 12/13/19 | 940 | HDPE/1 | -2 | X | | | |
| MW4A-soil-21-23-01-121319 | soil | 12/13/19 | 945 | HDPE/1 | -3 | X | | | |
| MW4A-soil-31-32-01-121319 | soil | 12/13/19 | 955 | HDPE/1 | -4 | X | | | |
| MW4A-soil-37-38-01-121319 | soil | 12/13/19 | 1000 | HDPE/1 | -5 | X | | | |
| MW4A-soil-38-40-01-121319 | soil | 12/13/19 | 1005 | HDPE/1 | -6 | X | | | |
| MW4A-soil-50-52-01-121319 | soil | 12/13/19 | 1018 | HDPE/1 | -7 | X | | | |
| MW4A-soil-68-70-01-121319 | soil | 12/13/19 | 1021 | HDPE/1 | -8 | X | | | |
| MW4A-soil-74-75-01-121319 | soil | 12/13/19 | 1035 | HDPE/1 | -9 | X | | | |
| MW4A-soil-74-75-02-121319 | soil | 12/13/19 | 1037 | HDPE/1 | -10 | X | | | |
| MW4A-soil-74-75-03-121319 | soil | 12/13/19 | 1040 | HDPE/1 | -11 | X | X | X | |

Relinquished by (Signature): Date 12/17/19 Time 1345
Relinquished by (Signature): Date Time

Received by (Signature): Jennifer Carlson
Date 18 Dec 2019 Time 12:15
Received by (Signature):
Date Time

Courier: FedEx
Waybill No.: 8099 6432 5864

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS

# CHAIN OF CUSTODY 2 of 2

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 5542
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60608807
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLA-110 | MS | MSD | Trip Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| MW4A-soil-60-62-01-121319 | soil | 12/13/19 | 1019 | HDPE/1 | L32482-12 | X | | | | |
| MW4A-soil-80-81-01-121319 | soil | 12/13/19 | 1115 | HDPE/1 | -13 | X | | | | |
| MW4A-soil-85-86-01-121319 | soil | 12/13/19 | 1120 | HDPE/1 | -14 | X | | | | |
| MW4A-soil-88-89-01-121319 | soil | 12/13/19 | 1125 | HDPE/1 | -15 | X | | | | |
| 809964325864 | water | 12/13/19 | — | HDPE/1L | | | | | X | |

Relinquished by (Signature) Date 12/17/19 Time 1345
Relinquished by (Signature) Date Time
Received by (Signature) Jennifer Carlson
Date 18Dec2019 Time 12:15
Received by (Signature)
Date Time

Courier: FedEx
Waybill No.: 8099 6432 5864

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

**FedEx Express** International Air Waybill

4.7°C 12:15
5687 bagged wet ice thawing

FedEx Tracking Number 8099 6432 5864 Form ID No. 0402

4095

**Origin Copy**

## 1 From

Date 12/17/19 Sender's FedEx Account Number 1410-8393-7

Sender's Name [illegible] Phone 612-376-[illegible]

Company AECOM

Address [illegible]

Address

City [illegible] State Province MN

Country USA ZIP Postal Code 55403

## 2 To

Recipient's Name Sample Receiving Phone 250655580

Company SGS AXYS Analytical

Address

Dept/Floor

Address 2045 Mills Road

City Sidney State Province BC

Country CA ZIP Postal Code V8L 5X3

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

## 3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 39 lbs. ☒ kg ☐ DIM 26 / 14 / 13 in. ☐ cm ☐

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| [illegible] | [illegible] | USA | $80.00 |

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage 80.-

Total Value for Customs (Specify Currency) 80.-

## 4 Express Package Service

*Packages up to 150 lbs. / 68 kg*
*For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

1 ☐ FedEx Intl. Priority 6 ☐ FedEx Intl. First (Available to select locations.)
☐ 3 ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

## 5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☐ Other [illegible] PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

## 6 Special Handling

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.) X Overtime

## 7 Payment

Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque

FedEx Acct. No. [redacted] Total Transportation

Credit Card Exp. Date Specify Currency

*Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No.

## 8 Your Internal Billing Reference

First 24 characters will appear on invoice.

## 9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:** [signature]

*This is not authorization to deliver this shipment without a recipient signature.*

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature: Jennifer Carlsen 18 Dec 2019

568

PART 158410
Rev. Date 11/08
©1994–2008 FedEx
PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6432 5864 0402 Form ID No.

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units |
|---|---|---|---|
| STPKS | CA YYJA | | 1 |
| | | | Total Volume (cm) |

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☒ World Service Center 5 ☐ Station

Forms Attached: ☒ CI ☐ CO

Base Charges ____ Declared Val. Chrg. ____ Other ____ ODA/OPA ____ Credit Card Auth. ____

FedEx Emp. # 125535 Audit Emp. # ____ Date 12/17/19 Time 3:30 PM Del. Courier Emp. # ____ Date ____ Time ____

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

RRDA 12/15

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 17-DEC-19

Waybill #: 809964325864
Date /Time Received: 18-DEC-19 12:15
Receipt No: WB26967

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE Signature:

Axys Sample ID's: L32482-1 to -15

Matrix Type: Seds/aq

Condition of Shipping Container: intact

Temperature upon Receipt: 4.7 Celcius bagged wet ice thawing

Thermometer ID: 5687
Corrected Temperature: 4.5 Celcius
Samples received above temperature: Yes /No

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Custody Seals: | Shipping Containers | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |
| | Samples | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jan. 07, 2020*
*11:55 AM*

For scanning
DPR
07-Jan-2020

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-1** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-8-8.5-01-121319 | 847054 | | | |
| 13-DEC-19 09:05 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-2** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-20-21-01-121319 | 847054 | | | |
| 13-DEC-19 09:40 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-3** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-21-23-01-121319 | 847054 | | | |
| 13-DEC-19 09:45 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-4** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-31-32-01-121319 | 847054 | | | |
| 13-DEC-19 09:55 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-5** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-37-38-01-121319 | 847054 | | | |
| 13-DEC-19 10:00 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-6** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-38-40-01-121319 | FIELDQC | | | |
| 13-DEC-19 10:05 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-7** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-50-52-01-121319 | 847054 | | | |
| 13-DEC-19 10:18 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-8** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-68-70-01-121319 | 847054 | | | |
| 13-DEC-19 10:21 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-9** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-74-75-01-121319 | 847054 | | | |
| 13-DEC-19 10:35 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-10** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-74-75-02-121319 | 847054 | | | |
| 13-DEC-19 10:37 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-11** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-74-75-03-121319 | 847054 | | | |
| 13-DEC-19 10:40 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-12** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-60-62-01-121319 | 847054 | | | |
| 13-DEC-19 10:19 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-13** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-80-81-01-121319 | 847057 | | | |
| 13-DEC-19 11:15 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-14** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-85-86-01-121319 | 847054 | | | |
| 13-DEC-19 11:20 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-15** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-88-89-01-121319 | 847057 | | | |
| 13-DEC-19 11:25 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-8-8.5-01-121319**
**Sample Collection:**
**13-Dec-2019 09:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-1 |
| **Matrix:** | SOLID | **Sample Size:** | 5.40 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:18:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 11.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.296 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0741 (L) | |
| **PFHpA** | U | | 0.0741 (L) | |
| **PFOA** | U | | 0.0741 (L) | |
| **PFNA** | U | | 0.0741 (L) | |
| **PFDA** | U | | 0.0741 (L) | |
| **PFUnA** | U | | 0.0741 (L) | |
| **PFDoA** | U | | 0.0741 (L) | |
| **PFTrDA** | U | | 0.0741 (L) | |
| **PFTeDA** | U | | 0.0741 (L) | |
| **PFBS** | U | | 0.0741 (L) | |
| **PFPeS** | U | | 0.0741 (L) | |
| **PFHxS** | U | | 0.0741 (L) | |
| **PFHpS** | U | | 0.0741 (L) | |
| **PFOS** | U | | 0.0741 (L) | |
| **PFNS** | U | | 0.0741 (L) | |
| **PFDS** | U | | 0.0741 (L) | |
| **PFDoS** | U | | 0.0741 (L) | |
| **4:2 FTS** | U | | 0.296 (L) | |
| **6:2 FTS** | U | | 0.267 (L) | |
| **8:2 FTS** | U | | 0.296 (L) | |
| **PFOSA** | U | | 0.0741 (L) | |
| **N-MeFOSA** | U | | 0.0852 (L) | |
| **N-EtFOSA** | U | | 0.185 (L) | |
| **MeFOSAA** | U | | 0.0741 (L) | |
| **EtFOSAA** | U | | 0.0741 (L) | |
| **N-MeFOSE** | U | | 0.741 (L) | |
| **N-EtFOSE** | U | | 0.556 (L) | |
| **HFPO-DA** | U | | 0.296 (L) | |
| **ADONA** | U | | 0.296 (L) | |
| **9Cl-PF3ONS** | U | | 0.296 (L) | |
| **11Cl-PF3OUdS** | U | | 0.296 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-1_Form1A_FC0L_022S39_SJ2698215.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-8-8.5-01-121319**
**Sample Collection:**
**13-Dec-2019 09:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-1 |
| **Matrix:** | SOLID | **Sample Size:** | 5.40 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:18:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 11.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.6 | 2:00 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.02 | 90.2 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.59 | 85.9 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.80 | 88.0 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.61 | 92.2 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.94 | 98.8 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.01 | 100 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.65 | 93.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.40 | 67.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.71 | 97.1 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 10.3 | 103 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.22 | 92.2 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.0 | 135 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.3 | 131 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 27.8 | 139 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 2.81 | 28.1 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 1.65 | 16.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.7 | 113 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 22.2 | 111 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 56.9 | 56.9 | 9:59 |
| **d9-NEt-FOSE** | V | 100 | 46.4 | 46.4 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.4 | 109 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-1_Form2_FC0L_022S39_SJ2698215.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-20-21-01-121319**
**Sample Collection:**
**13-Dec-2019 09:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-2 |
| **Matrix:** | SOLID | **Sample Size:** | 5.39 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:31:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 11.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.297 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0742 (L) | |
| **PFHpA** | U | | 0.0742 (L) | |
| **PFOA** | U | | 0.0742 (L) | |
| **PFNA** | U | | 0.0742 (L) | |
| **PFDA** | U | | 0.0742 (L) | |
| **PFUnA** | U | | 0.0742 (L) | |
| **PFDoA** | U | | 0.0742 (L) | |
| **PFTrDA** | U | | 0.0742 (L) | |
| **PFTeDA** | U | | 0.0742 (L) | |
| **PFBS** | U | | 0.0742 (L) | |
| **PFPeS** | U | | 0.0742 (L) | |
| **PFHxS** | U | | 0.0742 (L) | |
| **PFHpS** | U | | 0.0742 (L) | |
| **PFOS** | U | | 0.0742 (L) | |
| **PFNS** | U | | 0.0742 (L) | |
| **PFDS** | U | | 0.0742 (L) | |
| **PFDoS** | U | | 0.0742 (L) | |
| **4:2 FTS** | U | | 0.297 (L) | |
| **6:2 FTS** | U | | 0.267 (L) | |
| **8:2 FTS** | U | | 0.297 (L) | |
| **PFOSA** | U | | 0.0742 (L) | |
| **N-MeFOSA** | U | | 0.0853 (L) | |
| **N-EtFOSA** | U | | 0.185 (L) | |
| **MeFOSAA** | U | | 0.0742 (L) | |
| **EtFOSAA** | U | | 0.0742 (L) | |
| **N-MeFOSE** | U | | 0.742 (L) | |
| **N-EtFOSE** | U | | 0.556 (L) | |
| **HFPO-DA** | U | | 0.297 (L) | |
| **ADONA** | U | | 0.297 (L) | |
| **9Cl-PF3ONS** | U | | 0.297 (L) | |
| **11Cl-PF3OUdS** | U | | 0.297 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-2_Form1A_FC0L_022S40_SJ2698216.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-20-21-01-121319**
**Sample Collection:**
**13-Dec-2019 09:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-2 |
| **Matrix:** | SOLID | **Sample Size:** | 5.39 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:31:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 11.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.2 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.5 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.09 | 90.9 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.48 | 94.8 | 5:27 |
| **13C8-PFOA** | | 10.0 | 9.13 | 91.3 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.5 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.66 | 93.3 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.70 | 93.9 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.76 | 95.3 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.80 | 75.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 10.3 | 103 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.73 | 97.3 | 6:24 |
| **13C8-PFOS** | | 10.0 | 10.4 | 104 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 26.5 | 132 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.5 | 133 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 30.1 | 150 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.9 | 109 | 8:49 |
| **D3-N-MeFOSA** | | 10.0 | 5.25 | 52.5 | 10:07 |
| **D5-N-EtFOSA** | | 10.0 | 5.13 | 51.3 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.4 | 117 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 22.2 | 111 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 67.2 | 67.2 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 67.1 | 67.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 42.0 | 105 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-2_Form2_FC0L_022S40_SJ2698216.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-21-23-01-121319**
**Sample Collection:**
**13-Dec-2019 09:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-3 |
| **Matrix:** | SOLID | **Sample Size:** | 5.23 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:44:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 12.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.306 (L) | |
| **PFPeA** | U | | 0.153 (L) | |
| **PFHxA** | U | | 0.0765 (L) | |
| **PFHpA** | U | | 0.0765 (L) | |
| **PFOA** | U | | 0.0765 (L) | |
| **PFNA** | U | | 0.0765 (L) | |
| **PFDA** | U | | 0.0765 (L) | |
| **PFUnA** | U | | 0.0765 (L) | |
| **PFDoA** | U | | 0.0765 (L) | |
| **PFTrDA** | U | | 0.0765 (L) | |
| **PFTeDA** | U | | 0.0765 (L) | |
| **PFBS** | U | | 0.0765 (L) | |
| **PFPeS** | U | | 0.0765 (L) | |
| **PFHxS** | U | | 0.0765 (L) | |
| **PFHpS** | U | | 0.0765 (L) | |
| **PFOS** | U | | 0.0765 (L) | |
| **PFNS** | U | | 0.0765 (L) | |
| **PFDS** | U | | 0.0765 (L) | |
| **PFDoS** | U | | 0.0765 (L) | |
| **4:2 FTS** | U | | 0.306 (L) | |
| **6:2 FTS** | U | | 0.275 (L) | |
| **8:2 FTS** | U | | 0.306 (L) | |
| **PFOSA** | U | | 0.0765 (L) | |
| **N-MeFOSA** | U | | 0.0880 (L) | |
| **N-EtFOSA** | U | | 0.191 (L) | |
| **MeFOSAA** | U | | 0.0765 (L) | |
| **EtFOSAA** | U | | 0.0765 (L) | |
| **N-MeFOSE** | U | | 0.765 (L) | |
| **N-EtFOSE** | U | | 0.574 (L) | |
| **HFPO-DA** | U | | 0.306 (L) | |
| **ADONA** | U | | 0.306 (L) | |
| **9Cl-PF3ONS** | U | | 0.306 (L) | |
| **11Cl-PF3OUdS** | U | | 0.306 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-3_Form1A_FC0L_022S41_SJ2698217.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-21-23-01-121319**
**Sample Collection:**
**13-Dec-2019 09:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-3 |
| **Matrix:** | SOLID | **Sample Size:** | 5.23 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:44:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 12.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.0 | 87.5 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 21.0 | 105 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.37 | 93.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.67 | 86.7 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.48 | 84.8 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.7 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.4 | 7:36 |
| **13C7-PFUnA** | | 5.00 | 4.83 | 96.7 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.49 | 89.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.64 | 72.8 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.92 | 99.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.65 | 96.5 | 6:24 |
| **13C8-PFOS** | | 10.0 | 8.78 | 87.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 28.1 | 141 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 28.0 | 140 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 25.2 | 126 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.31 | 93.1 | 8:48 |
| **D3-N-MeFOSA** | | 10.0 | 5.48 | 54.8 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.86 | 48.6 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.5 | 117 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.5 | 108 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 85.7 | 85.7 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 94.6 | 94.6 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 44.3 | 111 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-3_Form2_FC0L_022S41_SJ2698217.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-31-32-01-121319**
**Sample Collection:**
**13-Dec-2019 09:55**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-4 |
| **Matrix:** | SOLID | **Sample Size:** | 5.51 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:57:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.290 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0726 (L) | |
| **PFHpA** | U | | 0.0726 (L) | |
| **PFOA** | U | | 0.0726 (L) | |
| **PFNA** | U | | 0.0726 (L) | |
| **PFDA** | U | | 0.0726 (L) | |
| **PFUnA** | U | | 0.0726 (L) | |
| **PFDoA** | U | | 0.0726 (L) | |
| **PFTrDA** | U | | 0.0726 (L) | |
| **PFTeDA** | U | | 0.0726 (L) | |
| **PFBS** | U | | 0.0726 (L) | |
| **PFPeS** | U | | 0.0726 (L) | |
| **PFHxS** | U | | 0.0726 (L) | |
| **PFHpS** | U | | 0.0726 (L) | |
| **PFOS** | U | | 0.0726 (L) | |
| **PFNS** | U | | 0.0726 (L) | |
| **PFDS** | U | | 0.0726 (L) | |
| **PFDoS** | U | | 0.0726 (L) | |
| **4:2 FTS** | U | | 0.290 (L) | |
| **6:2 FTS** | U | | 0.261 (L) | |
| **8:2 FTS** | U | | 0.290 (L) | |
| **PFOSA** | U | | 0.0726 (L) | |
| **N-MeFOSA** | U | | 0.0834 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0726 (L) | |
| **EtFOSAA** | U | | 0.0726 (L) | |
| **N-MeFOSE** | U | | 0.726 (L) | |
| **N-EtFOSE** | U | | 0.544 (L) | |
| **HFPO-DA** | U | | 0.290 (L) | |
| **ADONA** | U | | 0.290 (L) | |
| **9Cl-PF3ONS** | U | | 0.290 (L) | |
| **11Cl-PF3OUdS** | U | | 0.290 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-4_Form1A_FC0L_022S42_SJ2698218.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-31-32-01-121319**
**Sample Collection:**
**13-Dec-2019 09:55**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-4 |
| **Matrix:** | SOLID | **Sample Size:** | 5.51 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:57:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.5 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.8 | 104 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.55 | 95.5 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:27 |
| **13C8-PFOA** | | 10.0 | 9.37 | 93.7 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.35 | 87.0 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.16 | 103 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.60 | 92.1 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.91 | 98.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.97 | 79.5 | 8:57 |
| **13C3-PFBS** | | 10.0 | 8.99 | 89.9 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.45 | 94.5 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.23 | 92.3 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.8 | 129 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.9 | 139 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 28.0 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.39 | 93.9 | 8:48 |
| **D3-N-MeFOSA** | | 10.0 | 5.22 | 52.2 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.67 | 46.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 21.2 | 106 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 17.6 | 88.0 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 71.5 | 71.5 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 69.9 | 69.9 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.5 | 114 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-4_Form2_FC0L_022S42_SJ2698218.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-37-38-01-121319**
**Sample Collection:**
**13-Dec-2019 10:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-5 |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:10:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.293 (L) | |
| **PFPeA** | U | | 0.146 (L) | |
| **PFHxA** | U | | 0.0732 (L) | |
| **PFHpA** | U | | 0.0732 (L) | |
| **PFOA** | U | | 0.0732 (L) | |
| **PFNA** | U | | 0.0732 (L) | |
| **PFDA** | U | | 0.0732 (L) | |
| **PFUnA** | U | | 0.0732 (L) | |
| **PFDoA** | U | | 0.0732 (L) | |
| **PFTrDA** | U | | 0.0732 (L) | |
| **PFTeDA** | U | | 0.0732 (L) | |
| **PFBS** | U | | 0.0732 (L) | |
| **PFPeS** | U | | 0.0732 (L) | |
| **PFHxS** | U | | 0.0732 (L) | |
| **PFHpS** | U | | 0.0732 (L) | |
| **PFOS** | | 0.201 | 0.0732 (L) | |
| **PFNS** | U | | 0.0732 (L) | |
| **PFDS** | U | | 0.0732 (L) | |
| **PFDoS** | U | | 0.0732 (L) | |
| **4:2 FTS** | U | | 0.293 (L) | |
| **6:2 FTS** | U | | 0.263 (L) | |
| **8:2 FTS** | U | | 0.293 (L) | |
| **PFOSA** | U | | 0.0732 (L) | |
| **N-MeFOSA** | U | | 0.0842 (L) | |
| **N-EtFOSA** | U | | 0.183 (L) | |
| **MeFOSAA** | U | | 0.0732 (L) | |
| **EtFOSAA** | U | | 0.0732 (L) | |
| **N-MeFOSE** | U | | 0.732 (L) | |
| **N-EtFOSE** | U | | 0.549 (L) | |
| **HFPO-DA** | U | | 0.293 (L) | |
| **ADONA** | U | | 0.293 (L) | |
| **9Cl-PF3ONS** | U | | 0.293 (L) | |
| **11Cl-PF3OUdS** | U | | 0.293 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-5_Form1A_FC0L_022S43_SJ2698219.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-37-38-01-121319**
**Sample Collection:**
**13-Dec-2019 10:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-5 |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:10:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.1 | 87.8 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 19.9 | 99.7 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.53 | 95.3 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.57 | 85.7 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.02 | 80.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.40 | 87.9 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.5 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.82 | 76.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.31 | 86.2 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.63 | 72.7 | 8:57 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 10.0 | 100 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.34 | 93.4 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.1 | 135 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 28.4 | 142 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.9 | 145 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.1 | 101 | 8:48 |
| **D3-N-MeFOSA** | V | 10.0 | 4.85 | 48.5 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.34 | 43.4 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 20.6 | 103 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 19.6 | 97.9 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 64.0 | 64.0 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 61.8 | 61.8 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.2 | 108 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-5_Form2_FC0L_022S43_SJ2698219.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-38-40-01-121319**
**Sample Collection:**
**13-Dec-2019 10:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.69 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:23:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.32 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.281 (L) | |
| **PFPeA** | U | | 0.140 (L) | |
| **PFHxA** | U | | 0.0702 (L) | |
| **PFHpA** | U | | 0.0702 (L) | |
| **PFOA** | U | | 0.0702 (L) | |
| **PFNA** | U | | 0.0702 (L) | |
| **PFDA** | U | | 0.0702 (L) | |
| **PFUnA** | U | | 0.0702 (L) | |
| **PFDoA** | U | | 0.0702 (L) | |
| **PFTrDA** | U | | 0.0702 (L) | |
| **PFTeDA** | U | | 0.0702 (L) | |
| **PFBS** | U | | 0.0702 (L) | |
| **PFPeS** | U | | 0.0702 (L) | |
| **PFHxS** | U | | 0.0702 (L) | |
| **PFHpS** | U | | 0.0702 (L) | |
| **PFOS** | U | | 0.0702 (L) | |
| **PFNS** | U | | 0.0702 (L) | |
| **PFDS** | U | | 0.0702 (L) | |
| **PFDoS** | U | | 0.0702 (L) | |
| **4:2 FTS** | U | | 0.281 (L) | |
| **6:2 FTS** | U | | 0.253 (L) | |
| **8:2 FTS** | U | | 0.281 (L) | |
| **PFOSA** | U | | 0.0702 (L) | |
| **N-MeFOSA** | U | | 0.0808 (L) | |
| **N-EtFOSA** | U | | 0.176 (L) | |
| **MeFOSAA** | U | | 0.0702 (L) | |
| **EtFOSAA** | U | | 0.0702 (L) | |
| **N-MeFOSE** | U | | 0.702 (L) | |
| **N-EtFOSE** | U | | 0.527 (L) | |
| **HFPO-DA** | U | | 0.281 (L) | |
| **ADONA** | U | | 0.281 (L) | |
| **9Cl-PF3ONS** | U | | 0.281 (L) | |
| **11Cl-PF3OUdS** | U | | 0.281 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-6_Form1A_FC0L_022S44_SJ2698220.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-38-40-01-121319**
**Sample Collection:**
**13-Dec-2019 10:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.69 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:23:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.32 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.1 | 90.2 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 104 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.28 | 92.8 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.87 | 88.7 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.49 | 84.9 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.7 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.09 | 102 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.14 | 103 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.43 | 88.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.49 | 69.8 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.55 | 95.5 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.27 | 92.7 | 6:24 |
| **13C8-PFOS** | | 10.0 | 8.99 | 89.9 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.0 | 135 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.0 | 135 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 29.2 | 146 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.67 | 86.7 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.51 | 45.1 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 3.82 | 38.2 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.3 | 112 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 19.8 | 99.1 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 50.1 | 50.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 50.3 | 50.3 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 47.4 | 119 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-6_Form2_FC0L_022S44_SJ2698220.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-50-52-01-121319**
**Sample Collection:**
**13-Dec-2019 10:18**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-7 |
| **Matrix:** | SOLID | **Sample Size:** | 5.08 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:36:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 17.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.315 (L) | |
| **PFPeA** | U | | 0.157 (L) | |
| **PFHxA** | U | | 0.0787 (L) | |
| **PFHpA** | U | | 0.0787 (L) | |
| **PFOA** | U | | 0.0787 (L) | |
| **PFNA** | U | | 0.0787 (L) | |
| **PFDA** | U | | 0.0787 (L) | |
| **PFUnA** | U | | 0.0787 (L) | |
| **PFDoA** | U | | 0.0787 (L) | |
| **PFTrDA** | U | | 0.0787 (L) | |
| **PFTeDA** | U | | 0.0787 (L) | |
| **PFBS** | U | | 0.0787 (L) | |
| **PFPeS** | U | | 0.0787 (L) | |
| **PFHxS** | U | | 0.0787 (L) | |
| **PFHpS** | U | | 0.0787 (L) | |
| **PFOS** | U | | 0.0787 (L) | |
| **PFNS** | U | | 0.0787 (L) | |
| **PFDS** | U | | 0.0787 (L) | |
| **PFDoS** | U | | 0.0787 (L) | |
| **4:2 FTS** | U | | 0.315 (L) | |
| **6:2 FTS** | U | | 0.283 (L) | |
| **8:2 FTS** | U | | 0.315 (L) | |
| **PFOSA** | U | | 0.0787 (L) | |
| **N-MeFOSA** | U | | 0.0905 (L) | |
| **N-EtFOSA** | U | | 0.197 (L) | |
| **MeFOSAA** | U | | 0.0787 (L) | |
| **EtFOSAA** | U | | 0.0787 (L) | |
| **N-MeFOSE** | U | | 0.787 (L) | |
| **N-EtFOSE** | U | | 0.590 (L) | |
| **HFPO-DA** | U | | 0.315 (L) | |
| **ADONA** | U | | 0.315 (L) | |
| **9Cl-PF3ONS** | U | | 0.315 (L) | |
| **11Cl-PF3OUdS** | U | | 0.315 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-7_Form1A_FC0L_022S45_SJ2698221.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-50-52-01-121319**
**Sample Collection:**
**13-Dec-2019 10:18**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-7 |
| **Matrix:** | SOLID | **Sample Size:** | 5.08 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:36:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 17.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.4 | 90.9 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 104 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.62 | 96.2 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.24 | 92.4 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.76 | 87.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.40 | 88.0 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.30 | 106 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.49 | 110 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.95 | 98.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.91 | 78.2 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.59 | 95.9 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.13 | 91.3 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.14 | 91.4 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.9 | 130 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.7 | 133 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 27.8 | 139 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.3 | 103 | 8:49 |
| **D3-N-MeFOSA** | | 10.0 | 6.97 | 69.7 | 10:07 |
| **D5-N-EtFOSA** | | 10.0 | 6.36 | 63.6 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 100 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.8 | 104 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 77.4 | 77.4 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 76.9 | 76.9 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.8 | 114 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-7_Form2_FC0L_022S45_SJ2698221.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-68-70-01-121319**
**Sample Collection:**
**13-Dec-2019 10:21**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-8 |
| **Matrix:** | SOLID | **Sample Size:** | 5.43 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:49:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.295 (L) | |
| **PFPeA** | U | | 0.147 (L) | |
| **PFHxA** | U | | 0.0737 (L) | |
| **PFHpA** | U | | 0.0737 (L) | |
| **PFOA** | U | | 0.0737 (L) | |
| **PFNA** | U | | 0.0737 (L) | |
| **PFDA** | U | | 0.0737 (L) | |
| **PFUnA** | U | | 0.0737 (L) | |
| **PFDoA** | U | | 0.0737 (L) | |
| **PFTrDA** | U | | 0.0737 (L) | |
| **PFTeDA** | U | | 0.0737 (L) | |
| **PFBS** | U | | 0.0737 (L) | |
| **PFPeS** | U | | 0.0737 (L) | |
| **PFHxS** | U | | 0.0737 (L) | |
| **PFHpS** | U | | 0.0737 (L) | |
| **PFOS** | J | 0.076 | 0.0737 (L) | |
| **PFNS** | U | | 0.0737 (L) | |
| **PFDS** | U | | 0.0737 (L) | |
| **PFDoS** | U | | 0.0737 (L) | |
| **4:2 FTS** | U | | 0.295 (L) | |
| **6:2 FTS** | U | | 0.265 (L) | |
| **8:2 FTS** | U | | 0.295 (L) | |
| **PFOSA** | U | | 0.0737 (L) | |
| **N-MeFOSA** | U | | 0.0847 (L) | |
| **N-EtFOSA** | U | | 0.184 (L) | |
| **MeFOSAA** | U | | 0.0737 (L) | |
| **EtFOSAA** | U | | 0.0737 (L) | |
| **N-MeFOSE** | U | | 0.737 (L) | |
| **N-EtFOSE** | U | | 0.553 (L) | |
| **HFPO-DA** | U | | 0.295 (L) | |
| **ADONA** | U | | 0.295 (L) | |
| **9Cl-PF3ONS** | U | | 0.295 (L) | |
| **11Cl-PF3OUdS** | U | | 0.295 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-8_Form1A_FC0L_022S46_SJ2698222.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-68-70-01-121319**
**Sample Collection:**
**13-Dec-2019 10:21**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-8 |
| **Matrix:** | SOLID | **Sample Size:** | 5.43 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:49:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.8 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 21.3 | 107 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.53 | 95.3 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.85 | 88.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.94 | 89.4 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.42 | 88.4 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.17 | 103 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.95 | 99.0 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.90 | 98.0 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.95 | 78.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.46 | 94.6 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.38 | 93.8 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.70 | 97.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.7 | 129 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.2 | 136 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 27.9 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.13 | 91.3 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.51 | 45.1 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.35 | 43.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 24.1 | 121 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 22.5 | 113 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 60.7 | 60.7 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 63.9 | 63.9 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 47.8 | 119 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-8_Form2_FC0L_022S46_SJ2698222.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-01-121319**
**Sample Collection:**
**13-Dec-2019 10:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-9 |
| **Matrix:** | SOLID | **Sample Size:** | 5.45 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:02:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 13.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.294 (L) | |
| **PFPeA** | U | | 0.147 (L) | |
| **PFHxA** | U | | 0.0734 (L) | |
| **PFHpA** | U | | 0.0734 (L) | |
| **PFOA** | U | | 0.0734 (L) | |
| **PFNA** | U | | 0.0734 (L) | |
| **PFDA** | U | | 0.0734 (L) | |
| **PFUnA** | U | | 0.0734 (L) | |
| **PFDoA** | U | | 0.0734 (L) | |
| **PFTrDA** | U | | 0.0734 (L) | |
| **PFTeDA** | U | | 0.0734 (L) | |
| **PFBS** | U | | 0.0734 (L) | |
| **PFPeS** | U | | 0.0734 (L) | |
| **PFHxS** | U | | 0.0734 (L) | |
| **PFHpS** | U | | 0.0734 (L) | |
| **PFOS** | J | 0.089 | 0.0734 (L) | |
| **PFNS** | U | | 0.0734 (L) | |
| **PFDS** | U | | 0.0734 (L) | |
| **PFDoS** | U | | 0.0734 (L) | |
| **4:2 FTS** | U | | 0.294 (L) | |
| **6:2 FTS** | U | | 0.264 (L) | |
| **8:2 FTS** | U | | 0.294 (L) | |
| **PFOSA** | U | | 0.0734 (L) | |
| **N-MeFOSA** | U | | 0.0844 (L) | |
| **N-EtFOSA** | U | | 0.184 (L) | |
| **MeFOSAA** | U | | 0.0734 (L) | |
| **EtFOSAA** | U | | 0.0734 (L) | |
| **N-MeFOSE** | U | | 0.734 (L) | |
| **N-EtFOSE** | U | | 0.551 (L) | |
| **HFPO-DA** | U | | 0.294 (L) | |
| **ADONA** | U | | 0.294 (L) | |
| **9Cl-PF3ONS** | U | | 0.294 (L) | |
| **11Cl-PF3OUdS** | U | | 0.294 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-9_Form1A_FC0L_022S47_SJ2698223.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-01-121319**
**Sample Collection:**
**13-Dec-2019 10:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-9 |
| **Matrix:** | SOLID | **Sample Size:** | 5.45 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:02:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 13.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.9 | 89.7 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.74 | 97.4 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.70 | 87.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.86 | 88.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.66 | 93.3 | 7:08 |
| **13C6-PFDA** | | 5.00 | 3.92 | 78.3 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.37 | 87.5 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.45 | 88.9 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.51 | 70.1 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.80 | 98.0 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.36 | 93.6 | 6:24 |
| **13C8-PFOS** | | 10.0 | 11.7 | 117 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.9 | 139 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.9 | 134 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 27.9 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 11.3 | 113 | 8:49 |
| **D3-N-MeFOSA** | | 10.0 | 5.27 | 52.7 | 10:07 |
| **D5-N-EtFOSA** | | 10.0 | 5.06 | 50.6 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 28.7 | 143 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 29.2 | 146 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 69.2 | 69.2 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 70.8 | 70.8 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.0 | 112 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFC_FC_LC_PFAS_L32482-9_Form2_FC0L_022S47_SJ2698223.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-02-121319**
**Sample Collection:**
**13-Dec-2019 10:37**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-10 |
| **Matrix:** | SOLID | **Sample Size:** | 5.41 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:14:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.296 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0739 (L) | |
| **PFHpA** | U | | 0.0739 (L) | |
| **PFOA** | U | | 0.0739 (L) | |
| **PFNA** | U | | 0.0739 (L) | |
| **PFDA** | U | | 0.0739 (L) | |
| **PFUnA** | U | | 0.0739 (L) | |
| **PFDoA** | U | | 0.0739 (L) | |
| **PFTrDA** | U | | 0.0739 (L) | |
| **PFTeDA** | U | | 0.0739 (L) | |
| **PFBS** | U | | 0.0739 (L) | |
| **PFPeS** | U | | 0.0739 (L) | |
| **PFHxS** | U | | 0.0739 (L) | |
| **PFHpS** | U | | 0.0739 (L) | |
| **PFOS** | J | 0.093 | 0.0739 (L) | |
| **PFNS** | U | | 0.0739 (L) | |
| **PFDS** | U | | 0.0739 (L) | |
| **PFDoS** | U | | 0.0739 (L) | |
| **4:2 FTS** | U | | 0.296 (L) | |
| **6:2 FTS** | U | | 0.266 (L) | |
| **8:2 FTS** | U | | 0.296 (L) | |
| **PFOSA** | U | | 0.0739 (L) | |
| **N-MeFOSA** | U | | 0.0850 (L) | |
| **N-EtFOSA** | U | | 0.185 (L) | |
| **MeFOSAA** | U | | 0.0739 (L) | |
| **EtFOSAA** | U | | 0.0739 (L) | |
| **N-MeFOSE** | U | | 0.739 (L) | |
| **N-EtFOSE** | U | | 0.554 (L) | |
| **HFPO-DA** | U | | 0.296 (L) | |
| **ADONA** | U | | 0.296 (L) | |
| **9Cl-PF3ONS** | U | | 0.296 (L) | |
| **11Cl-PF3OUdS** | U | | 0.296 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-10_Form1A_FC0L_022S48_SJ2698224.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-02-121319**
**Sample Collection:**
**13-Dec-2019 10:37**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-10 |
| **Matrix:** | SOLID | **Sample Size:** | 5.41 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:14:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.4 | 91.0 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.61 | 96.1 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.11 | 91.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.19 | 91.9 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.60 | 92.0 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.81 | 96.3 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.3 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.47 | 89.3 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.53 | 70.6 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.32 | 93.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.77 | 97.7 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.76 | 97.6 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 28.3 | 141 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.5 | 138 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 30.1 | 151 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.59 | 85.9 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 3.84 | 38.4 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 3.67 | 36.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.9 | 114 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.8 | 109 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 51.5 | 51.5 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 51.3 | 51.3 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 44.5 | 111 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-10_Form2_FC0L_022S48_SJ2698224.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319**
**Sample Collection:**
**13-Dec-2019 10:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-11 (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:28:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.290 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0724 (L) | |
| **PFHpA** | U | | 0.0724 (L) | |
| **PFOA** | U | | 0.0724 (L) | |
| **PFNA** | U | | 0.0724 (L) | |
| **PFDA** | U | | 0.0724 (L) | |
| **PFUnA** | U | | 0.0724 (L) | |
| **PFDoA** | U | | 0.0724 (L) | |
| **PFTrDA** | U | | 0.0724 (L) | |
| **PFTeDA** | U | | 0.0724 (L) | |
| **PFBS** | U | | 0.0724 (L) | |
| **PFPeS** | U | | 0.0724 (L) | |
| **PFHxS** | U | | 0.0724 (L) | |
| **PFHpS** | U | | 0.0724 (L) | |
| **PFOS** | U | | 0.0724 (L) | |
| **PFNS** | U | | 0.0724 (L) | |
| **PFDS** | U | | 0.0724 (L) | |
| **PFDoS** | U | | 0.0724 (L) | |
| **4:2 FTS** | U | | 0.290 (L) | |
| **6:2 FTS** | U | | 0.261 (L) | |
| **8:2 FTS** | U | | 0.290 (L) | |
| **PFOSA** | U | | 0.0724 (L) | |
| **N-MeFOSA** | U | | 0.0833 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0724 (L) | |
| **EtFOSAA** | U | | 0.0724 (L) | |
| **N-MeFOSE** | U | | 0.724 (L) | |
| **N-EtFOSE** | U | | 0.543 (L) | |
| **HFPO-DA** | U | | 0.290 (L) | |
| **ADONA** | U | | 0.290 (L) | |
| **9Cl-PF3ONS** | U | | 0.290 (L) | |
| **11Cl-PF3OUdS** | U | | 0.290 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-11_Form1A_FC0L_022S49_SJ2698225.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319**
**Sample Collection:**
**13-Dec-2019 10:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-11 (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:28:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.3 | 88.3 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 8.77 | 87.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.75 | 87.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.36 | 83.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.36 | 87.2 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.01 | 100 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.74 | 94.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.48 | 89.5 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.67 | 73.5 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.44 | 94.4 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.38 | 93.8 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.20 | 92.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.3 | 127 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 25.8 | 129 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 29.2 | 146 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.81 | 88.1 | 8:50 |
| **D3-N-MeFOSA** | V | 10.0 | 4.41 | 44.1 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 4.23 | 42.3 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 17.8 | 89.0 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.5 | 108 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 57.9 | 57.9 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 56.1 | 56.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 42.9 | 107 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-11_Form2_FC0L_022S49_SJ2698225.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-60-62-01-121319**
**Sample Collection:**
**13-Dec-2019 10:19**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-12 |
| **Matrix:** | SOLID | **Sample Size:** | 5.42 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:41:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.295 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0738 (L) | |
| **PFHpA** | U | | 0.0738 (L) | |
| **PFOA** | U | | 0.0738 (L) | |
| **PFNA** | U | | 0.0738 (L) | |
| **PFDA** | U | | 0.0738 (L) | |
| **PFUnA** | U | | 0.0738 (L) | |
| **PFDoA** | U | | 0.0738 (L) | |
| **PFTrDA** | U | | 0.0738 (L) | |
| **PFTeDA** | U | | 0.0738 (L) | |
| **PFBS** | U | | 0.0738 (L) | |
| **PFPeS** | U | | 0.0738 (L) | |
| **PFHxS** | U | | 0.0738 (L) | |
| **PFHpS** | U | | 0.0738 (L) | |
| **PFOS** | U | | 0.0738 (L) | |
| **PFNS** | U | | 0.0738 (L) | |
| **PFDS** | U | | 0.0738 (L) | |
| **PFDoS** | U | | 0.0738 (L) | |
| **4:2 FTS** | U | | 0.295 (L) | |
| **6:2 FTS** | U | | 0.266 (L) | |
| **8:2 FTS** | U | | 0.295 (L) | |
| **PFOSA** | U | | 0.0738 (L) | |
| **N-MeFOSA** | U | | 0.0848 (L) | |
| **N-EtFOSA** | U | | 0.184 (L) | |
| **MeFOSAA** | U | | 0.0738 (L) | |
| **EtFOSAA** | U | | 0.0738 (L) | |
| **N-MeFOSE** | U | | 0.738 (L) | |
| **N-EtFOSE** | U | | 0.553 (L) | |
| **HFPO-DA** | U | | 0.295 (L) | |
| **ADONA** | U | | 0.295 (L) | |
| **9Cl-PF3ONS** | U | | 0.295 (L) | |
| **11Cl-PF3OUdS** | U | | 0.295 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-12_Form1A_FC0L_022S50_SJ2698226.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-60-62-01-121319**
**Sample Collection:**
**13-Dec-2019 10:19**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-12 |
| **Matrix:** | SOLID | **Sample Size:** | 5.42 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:41:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.1 | 90.4 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 21.7 | 108 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.86 | 98.6 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.46 | 84.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.22 | 82.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.24 | 84.7 | 7:09 |
| **13C6-PFDA** | | 5.00 | 4.50 | 90.0 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.89 | 77.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.67 | 93.3 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.50 | 70.0 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.80 | 98.0 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.77 | 97.7 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.10 | 91.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.6 | 138 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.3 | 136 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 30.1 | 150 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.93 | 89.3 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.89 | 48.9 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 4.35 | 43.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.3 | 116 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.1 | 101 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 54.0 | 54.0 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 54.0 | 54.0 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.3 | 113 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-12_Form2_FC0L_022S50_SJ2698226.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-80-81-01-121319**
**Sample Collection:**
**13-Dec-2019 11:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-13 |
| **Matrix:** | SOLID | **Sample Size:** | 5.52 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:55:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.290 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0724 (L) | |
| **PFHpA** | U | | 0.0724 (L) | |
| **PFOA** | U | | 0.0724 (L) | |
| **PFNA** | U | | 0.0724 (L) | |
| **PFDA** | U | | 0.0724 (L) | |
| **PFUnA** | U | | 0.0724 (L) | |
| **PFDoA** | U | | 0.0724 (L) | |
| **PFTrDA** | U | | 0.0724 (L) | |
| **PFTeDA** | U | | 0.0724 (L) | |
| **PFBS** | U | | 0.0724 (L) | |
| **PFPeS** | U | | 0.0724 (L) | |
| **PFHxS** | U | | 0.0724 (L) | |
| **PFHpS** | U | | 0.0724 (L) | |
| **PFOS** | J | 0.134 | 0.0724 (L) | |
| **PFNS** | U | | 0.0724 (L) | |
| **PFDS** | U | | 0.0724 (L) | |
| **PFDoS** | U | | 0.0724 (L) | |
| **4:2 FTS** | U | | 0.290 (L) | |
| **6:2 FTS** | J | 1.10 | 0.261 (L) | 5:58 |
| **8:2 FTS** | U | | 0.290 (L) | |
| **PFOSA** | U | | 0.0724 (L) | |
| **N-MeFOSA** | U | | 0.0833 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0724 (L) | |
| **EtFOSAA** | U | | 0.0724 (L) | |
| **N-MeFOSE** | U | | 0.724 (L) | |
| **N-EtFOSE** | U | | 0.543 (L) | |
| **HFPO-DA** | U | | 0.290 (L) | |
| **ADONA** | U | | 0.290 (L) | |
| **9Cl-PF3ONS** | U | | 0.290 (L) | |
| **11Cl-PF3OUdS** | U | | 0.290 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-13_Form1A_FC0L_022S51_SJ2698227.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-80-81-01-121319**
**Sample Collection:**
**13-Dec-2019 11:15**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-13 |
| **Matrix:** | SOLID | **Sample Size:** | 5.52 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:55:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.9 | 87.2 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.24 | 92.4 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.23 | 82.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.36 | 83.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.6 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.50 | 90.1 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.93 | 119 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 5.73 | 115 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.03 | 80.7 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.88 | 98.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.54 | 95.4 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.18 | 91.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 26.9 | 134 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.4 | 137 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 29.6 | 148 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.44 | 84.4 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.77 | 47.7 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 4.17 | 41.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 21.5 | 107 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.3 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 57.8 | 57.8 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 59.8 | 59.8 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 44.2 | 110 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-13_Form2_FC0L_022S51_SJ2698227.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-85-86-01-121319**
**Sample Collection:**
**13-Dec-2019 11:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-14 |
| **Matrix:** | SOLID | **Sample Size:** | 5.30 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:08:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 11.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.302 (L) | |
| **PFPeA** | U | | 0.151 (L) | |
| **PFHxA** | U | | 0.0755 (L) | |
| **PFHpA** | U | | 0.0755 (L) | |
| **PFOA** | U | | 0.0755 (L) | |
| **PFNA** | U | | 0.0755 (L) | |
| **PFDA** | U | | 0.0755 (L) | |
| **PFUnA** | U | | 0.0755 (L) | |
| **PFDoA** | U | | 0.0755 (L) | |
| **PFTrDA** | U | | 0.0755 (L) | |
| **PFTeDA** | U | | 0.0755 (L) | |
| **PFBS** | U | | 0.0755 (L) | |
| **PFPeS** | U | | 0.0755 (L) | |
| **PFHxS** | U | | 0.0755 (L) | |
| **PFHpS** | U | | 0.0755 (L) | |
| **PFOS** | J | 0.117 | 0.0755 (L) | |
| **PFNS** | U | | 0.0755 (L) | |
| **PFDS** | U | | 0.0755 (L) | |
| **PFDoS** | U | | 0.0755 (L) | |
| **4:2 FTS** | U | | 0.302 (L) | |
| **6:2 FTS** | U | | 0.272 (L) | |
| **8:2 FTS** | U | | 0.302 (L) | |
| **PFOSA** | U | | 0.0755 (L) | |
| **N-MeFOSA** | U | | 0.0869 (L) | |
| **N-EtFOSA** | U | | 0.189 (L) | |
| **MeFOSAA** | U | | 0.0755 (L) | |
| **EtFOSAA** | U | | 0.0755 (L) | |
| **N-MeFOSE** | U | | 0.755 (L) | |
| **N-EtFOSE** | U | | 0.566 (L) | |
| **HFPO-DA** | U | | 0.302 (L) | |
| **ADONA** | U | | 0.302 (L) | |
| **9Cl-PF3ONS** | U | | 0.302 (L) | |
| **11Cl-PF3OUdS** | U | | 0.302 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-14_Form1A_FC0L_022S52_SJ2698228.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-85-86-01-121319**
**Sample Collection:**
**13-Dec-2019 11:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-14 |
| **Matrix:** | SOLID | **Sample Size:** | 5.30 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:08:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 11.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.8 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.47 | 94.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.81 | 98.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.37 | 93.7 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.31 | 86.2 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.38 | 87.6 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.45 | 109 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.96 | 99.1 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.96 | 79.3 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.58 | 95.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 10.3 | 103 | 6:24 |
| **13C8-PFOS** | | 10.0 | 11.6 | 116 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.5 | 137 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 29.0 | 145 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 28.2 | 141 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 11.9 | 119 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 6.86 | 68.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 5.98 | 59.8 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.7 | 119 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 26.1 | 130 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 82.1 | 82.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 82.0 | 82.0 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 47.2 | 118 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-14_Form2_FC0L_022S52_SJ2698228.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-88-89-01-121319**
**Sample Collection:**
**13-Dec-2019 11:25**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-15 |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:21:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.16 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.289 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0723 (L) | |
| **PFHpA** | U | | 0.0723 (L) | |
| **PFOA** | U | | 0.0723 (L) | |
| **PFNA** | U | | 0.0723 (L) | |
| **PFDA** | U | | 0.0723 (L) | |
| **PFUnA** | U | | 0.0723 (L) | |
| **PFDoA** | U | | 0.0723 (L) | |
| **PFTrDA** | U | | 0.0723 (L) | |
| **PFTeDA** | U | | 0.0723 (L) | |
| **PFBS** | U | | 0.0723 (L) | |
| **PFPeS** | U | | 0.0723 (L) | |
| **PFHxS** | U | | 0.0723 (L) | |
| **PFHpS** | U | | 0.0723 (L) | |
| **PFOS** | J | 0.120 | 0.0723 (L) | |
| **PFNS** | U | | 0.0723 (L) | |
| **PFDS** | U | | 0.0723 (L) | |
| **PFDoS** | U | | 0.0723 (L) | |
| **4:2 FTS** | U | | 0.289 (L) | |
| **6:2 FTS** | U | | 0.260 (L) | |
| **8:2 FTS** | U | | 0.289 (L) | |
| **PFOSA** | U | | 0.0723 (L) | |
| **N-MeFOSA** | U | | 0.0832 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0723 (L) | |
| **EtFOSAA** | U | | 0.0723 (L) | |
| **N-MeFOSE** | U | | 0.723 (L) | |
| **N-EtFOSE** | U | | 0.542 (L) | |
| **HFPO-DA** | U | | 0.289 (L) | |
| **ADONA** | U | | 0.289 (L) | |
| **9Cl-PF3ONS** | U | | 0.289 (L) | |
| **11Cl-PF3OUdS** | U | | 0.289 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-15_Form1A_FC0L_022S53_SJ2698229.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-88-89-01-121319**
**Sample Collection:**
**13-Dec-2019 11:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-15 |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:21:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.16 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.6 | 91.5 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 100 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.23 | 92.3 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.40 | 94.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.18 | 91.8 | 6:18 |
| **13C9-PFNA** | | 5.00 | 4.51 | 90.3 | 7:09 |
| **13C6-PFDA** | | 5.00 | 4.83 | 96.7 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.88 | 97.6 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 5.05 | 101 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.92 | 78.4 | 8:57 |
| **13C3-PFBS** | | 10.0 | 10.3 | 103 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.61 | 96.1 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.38 | 93.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 29.0 | 145 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 29.3 | 146 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 31.3 | 157 | 7:28 |
| **13C8-PFOSA** | | 10.0 | 9.82 | 98.2 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.46 | 54.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 5.07 | 50.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.0 | 110 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.3 | 101 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 65.1 | 65.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 66.1 | 66.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.8 | 109 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-15_Form2_FC0L_022S53_SJ2698229.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG71043-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 5.00 g |
| **Extraction Date:** | 27-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:52:05 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_022 S: 37** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Concentration Units:** | ng/g | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.320 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0800 (L) | |
| **PFHpA** | U | | 0.0800 (L) | |
| **PFOA** | U | | 0.0800 (L) | |
| **PFNA** | U | | 0.0800 (L) | |
| **PFDA** | U | | 0.0800 (L) | |
| **PFUnA** | U | | 0.0800 (L) | |
| **PFDoA** | U | | 0.0800 (L) | |
| **PFTrDA** | U | | 0.0800 (L) | |
| **PFTeDA** | U | | 0.0800 (L) | |
| **PFBS** | U | | 0.0800 (L) | |
| **PFPeS** | U | | 0.0800 (L) | |
| **PFHxS** | U | | 0.0800 (L) | |
| **PFHpS** | U | | 0.0800 (L) | |
| **PFOS** | U | | 0.0800 (L) | |
| **PFNS** | U | | 0.0800 (L) | |
| **PFDS** | U | | 0.0800 (L) | |
| **PFDoS** | U | | 0.0800 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0800 (L) | |
| **N-MeFOSA** | U | | 0.0920 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0800 (L) | |
| **EtFOSAA** | U | | 0.0800 (L) | |
| **N-MeFOSE** | U | | 0.800 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.320 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-101_Form1A_FC0L_022S37_SJ2698214.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-101 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:52:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.6 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 21.1 | 105 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.39 | 93.9 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.75 | 87.5 | 5:27 |
| **13C8-PFOA** | | 10.0 | 9.02 | 90.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.62 | 92.4 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.75 | 95.0 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.3 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.48 | 89.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.28 | 65.6 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.99 | 99.9 | 4:50 |
| **13C3-PFHxS** | | 10.0 | 9.53 | 95.3 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.09 | 90.9 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 26.7 | 133 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.4 | 137 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.0 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 7.74 | 77.4 | 8:48 |
| **D3-N-MeFOSA** | V | 10.0 | 4.43 | 44.3 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.13 | 41.3 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.1 | 115 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.5 | 108 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 57.0 | 57.0 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 58.1 | 58.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.7 | 109 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-101_Form2_FC0L_022S37_SJ2698214.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-102 |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:25:55 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_022 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 37.3 | 93.4 | 2:02 |
| **PFPeA** | | 20.0 | 18.1 | 90.5 | 4:16 |
| **PFHxA** | | 10.0 | 9.29 | 92.9 | 4:53 |
| **PFHpA** | | 10.0 | 8.51 | 85.1 | 5:27 |
| **PFOA** | | 10.0 | 9.74 | 97.4 | |
| **PFNA** | | 10.0 | 9.72 | 97.2 | |
| **PFDA** | | 10.0 | 9.23 | 92.3 | 7:37 |
| **PFUnA** | | 10.0 | 9.37 | 93.7 | 7:54 |
| **PFDoA** | | 10.0 | 8.89 | 88.9 | 8:10 |
| **PFTrDA** | | 10.0 | 10.1 | 101 | 8:31 |
| **PFTeDA** | | 10.0 | 9.46 | 94.6 | 8:57 |
| **PFBS** | | 10.0 | 9.32 | 93.2 | 4:51 |
| **PFPeS** | | 10.0 | 10.2 | 102 | 5:29 |
| **PFHxS** | | 10.0 | 8.31 | 83.1 | |
| **PFHpS** | | 10.0 | 9.57 | 95.7 | 7:15 |
| **PFOS** | | 10.0 | 8.99 | 89.9 | |
| **PFNS** | | 10.0 | 7.86 | 78.6 | 7:59 |
| **PFDS** | | 10.0 | 8.94 | 89.4 | 8:17 |
| **PFDoS** | | 10.0 | 8.71 | 87.1 | 9:07 |
| **4:2 FTS** | | 40.0 | 40.4 | 101 | 4:45 |
| **6:2 FTS** | | 36.1 | 43.2 | 120 | 5:57 |
| **8:2 FTS** | | 40.0 | 36.6 | 91.6 | 7:27 |
| **PFOSA** | | 10.0 | 9.78 | 97.8 | |
| **N-MeFOSA** | | 11.5 | 10.9 | 94.5 | |
| **N-EtFOSA** | | 25.0 | 20.6 | 82.4 | |
| **MeFOSAA** | | 10.0 | 8.03 | 80.3 | |
| **EtFOSAA** | | 10.0 | 8.33 | 83.3 | |
| **N-MeFOSE** | | 100 | 99.9 | 99.9 | |
| **N-EtFOSE** | | 75.0 | 70.8 | 94.5 | |
| **HFPO-DA** | | 40.0 | 37.7 | 94.2 | 5:04 |
| **ADONA** | | 40.0 | 32.3 | 80.6 | 5:43 |
| **9Cl-PF3ONS** | | 40.0 | 25.9 | 64.6 | 7:54 |
| **11Cl-PF3OUdS** | | 40.0 | 30.7 | 76.8 | 8:33 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-102_Form8A_SJ2698210.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-102 |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:25:55 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_022 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.8 | 84.6 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.17 | 91.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.10 | 91.0 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.40 | 84.0 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.49 | 89.8 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.60 | 91.9 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.41 | 88.2 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.69 | 93.8 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.57 | 71.4 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.61 | 96.1 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.65 | 96.5 | 6:23 |
| **13C8-PFOS** | | 10.0 | 9.40 | 94.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 24.5 | 122 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 24.9 | 125 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.3 | 141 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 7.77 | 77.7 | 8:48 |
| **D3-N-MeFOSA** | V | 10.0 | 4.18 | 41.8 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.09 | 40.9 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.1 | 111 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.9 | 105 | 7:47 |
| **d7-NMe-FOSE** | V | 100 | 48.1 | 48.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 50.2 | 50.2 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.1 | 113 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-102_Form8B_SJ2698210.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS)**
**ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MS)**
**Sample Collection:**
**13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.50 g (dry) |
| **Extraction Date:** | 27-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:00:18 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_022 S: 54** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_022 S: 37 |
| | | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 7.27 | U | | 6.74 | 92.7 | 1.18 |
| **PFPeA** | | N/A | 3.63 | U | | 3.32 | 91.3 | 0.581 |
| **PFHxA** | | N/A | 1.82 | U | | 1.63 | 89.6 | 1.87 |
| **PFHpA** | | N/A | 1.82 | U | | 1.65 | 90.8 | 7.62 |
| **PFOA** | | N/A | 1.82 | U | | 1.58 | 87.0 | 4.20 |
| **PFNA** | | N/A | 1.82 | U | | 1.71 | 94.1 | 6.51 |
| **PFDA** | | N/A | 1.82 | U | | 1.57 | 86.6 | 1.22 |
| **PFUnA** | | N/A | 1.82 | U | | 1.81 | 99.4 | 21.5 |
| **PFDoA** | | N/A | 1.82 | U | | 1.68 | 92.3 | 4.76 |
| **PFTrDA** | | N/A | 1.82 | U | | 1.95 | 107 | 1.87 |
| **PFTeDA** | | N/A | 1.82 | U | | 1.80 | 98.8 | 4.74 |
| **PFBS** | | N/A | 1.82 | U | | 1.65 | 91.0 | 1.75 |
| **PFPeS** | | N/A | 1.82 | U | | 1.81 | 99.9 | 2.39 |
| **PFHxS** | | N/A | 1.82 | U | | 1.55 | 85.3 | 2.47 |
| **PFHpS** | | N/A | 1.82 | U | | 1.62 | 89.0 | 3.17 |
| **PFOS** | | N/A | 1.82 | U | | 1.72 | 94.5 | 4.69 |
| **PFNS** | | N/A | 1.82 | U | | 1.79 | 98.4 | 1.06 |
| **PFDS** | | N/A | 1.82 | U | | 1.61 | 88.7 | 3.88 |
| **PFDoS** | | N/A | 1.82 | U | | 1.51 | 83.0 | 1.49 |
| **4:2 FTS** | | N/A | 7.27 | U | | 7.34 | 101 | 3.72 |
| **6:2 FTS** | | N/A | 6.55 | U | | 7.01 | 107 | 0.284 |
| **8:2 FTS** | | N/A | 7.27 | U | | 6.58 | 90.5 | 6.65 |
| **PFOSA** | | N/A | 1.82 | U | | 1.73 | 95.3 | 6.13 |
| **N-MeFOSA** | | N/A | 2.09 | U | | 2.06 | 98.5 | 8.77 |
| **N-EtFOSA** | | N/A | 4.54 | U | | 4.00 | 88.1 | 10.5 |
| **MeFOSAA** | | N/A | 1.82 | U | | 1.64 | 90.5 | 0.131 |
| **EtFOSAA** | | N/A | 1.82 | U | | 1.76 | 96.7 | 15.9 |
| **N-MeFOSE** | | N/A | 18.2 | U | | 17.1 | 94.1 | 1.65 |
| **N-EtFOSE** | | N/A | 13.6 | U | | 13.1 | 96.3 | 0.762 |
| **HFPO-DA** | | N/A | 7.27 | U | | 7.23 | 99.5 | 6.20 |
| **ADONA** | | N/A | 7.27 | U | | 6.22 | 85.6 | 0.028 |
| **9Cl-PF3ONS** | | N/A | 7.27 | U | | 6.23 | 85.6 | 5.28 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 7.27 | U | | 5.80 | 79.8 | 1.53 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 12-Feb-2020 08:57:32; Application: XMLTransformer-1.17.17;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71043-103_L32482-11_Form8C.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MS)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.50 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:00:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 6.74 | 0.291 (L) | 2:03 |
| **PFPeA** | | 3.32 | 0.145 (L) | 4:16 |
| **PFHxA** | | 1.63 | 0.0727 (L) | 4:53 |
| **PFHpA** | | 1.65 | 0.0727 (L) | 5:28 |
| **PFOA** | | 1.58 | 0.0727 (L) | |
| **PFNA** | | 1.71 | 0.0727 (L) | |
| **PFDA** | | 1.57 | 0.0727 (L) | 7:37 |
| **PFUnA** | | 1.81 | 0.0727 (L) | 7:54 |
| **PFDoA** | | 1.68 | 0.0727 (L) | 8:11 |
| **PFTrDA** | | 1.95 | 0.0727 (L) | 8:32 |
| **PFTeDA** | | 1.80 | 0.0727 (L) | 8:57 |
| **PFBS** | | 1.65 | 0.0727 (L) | 4:51 |
| **PFPeS** | | 1.81 | 0.0727 (L) | 5:30 |
| **PFHxS** | | 1.55 | 0.0727 (L) | |
| **PFHpS** | | 1.62 | 0.0727 (L) | 7:15 |
| **PFOS** | | 1.72 | 0.0727 (L) | |
| **PFNS** | | 1.79 | 0.0727 (L) | 7:59 |
| **PFDS** | | 1.61 | 0.0727 (L) | 8:18 |
| **PFDoS** | | 1.51 | 0.0727 (L) | 9:08 |
| **4:2 FTS** | | 7.34 | 0.291 (L) | 4:45 |
| **6:2 FTS** | | 7.01 | 0.262 (L) | 5:58 |
| **8:2 FTS** | | 6.58 | 0.291 (L) | 7:27 |
| **PFOSA** | | 1.73 | 0.0727 (L) | |
| **N-MeFOSA** | | 2.06 | 0.0836 (L) | |
| **N-EtFOSA** | | 4.00 | 0.182 (L) | |
| **MeFOSAA** | | 1.64 | 0.0727 (L) | |
| **EtFOSAA** | | 1.76 | 0.0727 (L) | |
| **N-MeFOSE** | | 17.1 | 0.727 (L) | |
| **N-EtFOSE** | | 13.1 | 0.545 (L) | |
| **HFPO-DA** | | 7.23 | 0.291 (L) | 5:04 |
| **ADONA** | | 6.22 | 0.291 (L) | 5:44 |
| **9Cl-PF3ONS** | | 6.23 | 0.291 (L) | 7:55 |
| **11Cl-PF3OUdS** | | 5.80 | 0.291 (L) | 8:34 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-103_Form1A_FC0L_022S54_SJ2698230.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MS)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.50 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:00:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.4 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.50 | 95.0 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.92 | 89.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.88 | 88.8 | 6:18 |
| **13C9-PFNA** | | 5.00 | 4.56 | 91.2 | 7:09 |
| **13C6-PFDA** | | 5.00 | 4.87 | 97.4 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.29 | 65.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.56 | 91.2 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.41 | 68.1 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.82 | 98.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.56 | 95.6 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.48 | 94.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.4 | 127 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.3 | 136 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 29.8 | 149 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.09 | 80.9 | 8:50 |
| **D3-N-MeFOSA** | V | 10.0 | 4.44 | 44.4 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 3.97 | 39.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.1 | 115 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.5 | 102 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 56.4 | 56.4 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 56.7 | 56.7 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.2 | 113 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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Report Filename: PFC_FC_LC_PFAS_WG71043-103_Form2_FC0L_022S54_SJ2698230.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MSD)**
**Sample Collection:**
**13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Extraction Date:** | 27-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:13:21 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_022 S: 55** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_022 S: 37 |
| | | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 7.32 | U | | 6.82 | 93.2 | 1.18 |
| **PFPeA** | | N/A | 3.66 | U | | 3.34 | 91.2 | 0.581 |
| **PFHxA** | | N/A | 1.83 | U | | 1.66 | 90.7 | 1.87 |
| **PFHpA** | | N/A | 1.83 | U | | 1.78 | 97.4 | 7.62 |
| **PFOA** | | N/A | 1.83 | U | | 1.65 | 90.1 | 4.20 |
| **PFNA** | | N/A | 1.83 | U | | 1.83 | 99.8 | 6.51 |
| **PFDA** | | N/A | 1.83 | U | | 1.59 | 87.1 | 1.22 |
| **PFUnA** | | N/A | 1.83 | U | | 2.24 | 123 | 21.5 |
| **PFDoA** | | N/A | 1.83 | U | | 1.76 | 96.2 | 4.76 |
| **PFTrDA** | | N/A | 1.83 | U | | 1.99 | 109 | 1.87 |
| **PFTeDA** | | N/A | 1.83 | U | | 1.71 | 93.6 | 4.74 |
| **PFBS** | | N/A | 1.83 | U | | 1.68 | 92.1 | 1.75 |
| **PFPeS** | | N/A | 1.83 | U | | 1.77 | 96.9 | 2.39 |
| **PFHxS** | | N/A | 1.83 | U | | 1.51 | 82.6 | 2.47 |
| **PFHpS** | | N/A | 1.83 | U | | 1.57 | 85.7 | 3.17 |
| **PFOS** | | N/A | 1.83 | U | | 1.80 | 98.4 | 4.69 |
| **PFNS** | | N/A | 1.83 | U | | 1.77 | 96.7 | 1.06 |
| **PFDS** | | N/A | 1.83 | U | | 1.68 | 91.7 | 3.88 |
| **PFDoS** | | N/A | 1.83 | U | | 1.53 | 83.7 | 1.49 |
| **4:2 FTS** | | N/A | 7.32 | U | | 7.07 | 96.7 | 3.72 |
| **6:2 FTS** | | N/A | 6.60 | U | | 6.99 | 106 | 0.284 |
| **8:2 FTS** | | N/A | 7.32 | U | | 7.03 | 96.1 | 6.65 |
| **PFOSA** | | N/A | 1.83 | U | | 1.63 | 89.1 | 6.13 |
| **N-MeFOSA** | | N/A | 2.10 | U | | 2.25 | 107 | 8.77 |
| **N-EtFOSA** | | N/A | 4.57 | U | | 4.45 | 97.2 | 10.5 |
| **MeFOSAA** | | N/A | 1.83 | U | | 1.64 | 89.8 | 0.131 |
| **EtFOSAA** | | N/A | 1.83 | U | | 1.50 | 81.9 | 15.9 |
| **N-MeFOSE** | | N/A | 18.3 | U | | 17.4 | 95.1 | 1.65 |
| **N-EtFOSE** | | N/A | 13.7 | U | | 13.2 | 96.5 | 0.762 |
| **HFPO-DA** | | N/A | 7.32 | U | | 6.80 | 92.9 | 6.20 |
| **ADONA** | | N/A | 7.32 | U | | 6.22 | 85.1 | 0.028 |
| **9Cl-PF3ONS** | | N/A | 7.32 | U | | 6.56 | 89.7 | 5.28 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 7.32 | U | | 5.89 | 80.5 | 1.53 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 12-Feb-2020 08:57:32; Application: XMLTransformer-1.17.17;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71043-104_L32482-11_Form8E.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MSD)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:13:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 6.82 | 0.293 (L) | 2:03 |
| **PFPeA** | | 3.34 | 0.146 (L) | 4:21 |
| **PFHxA** | | 1.66 | 0.0732 (L) | 4:59 |
| **PFHpA** | | 1.78 | 0.0732 (L) | 5:33 |
| **PFOA** | | 1.65 | 0.0732 (L) | |
| **PFNA** | | 1.83 | 0.0732 (L) | |
| **PFDA** | | 1.59 | 0.0732 (L) | 7:42 |
| **PFUnA** | | 2.24 | 0.0732 (L) | 7:59 |
| **PFDoA** | | 1.76 | 0.0732 (L) | 8:16 |
| **PFTrDA** | | 1.99 | 0.0732 (L) | 8:37 |
| **PFTeDA** | | 1.71 | 0.0732 (L) | 9:02 |
| **PFBS** | | 1.68 | 0.0732 (L) | 4:56 |
| **PFPeS** | | 1.77 | 0.0732 (L) | 5:35 |
| **PFHxS** | | 1.51 | 0.0732 (L) | |
| **PFHpS** | | 1.57 | 0.0732 (L) | 7:20 |
| **PFOS** | | 1.80 | 0.0732 (L) | |
| **PFNS** | | 1.77 | 0.0732 (L) | 8:05 |
| **PFDS** | | 1.68 | 0.0732 (L) | 8:23 |
| **PFDoS** | | 1.53 | 0.0732 (L) | 9:13 |
| **4:2 FTS** | | 7.07 | 0.293 (L) | 4:50 |
| **6:2 FTS** | | 6.99 | 0.263 (L) | 6:03 |
| **8:2 FTS** | | 7.03 | 0.293 (L) | 7:33 |
| **PFOSA** | | 1.63 | 0.0732 (L) | |
| **N-MeFOSA** | | 2.25 | 0.0841 (L) | |
| **N-EtFOSA** | | 4.45 | 0.183 (L) | |
| **MeFOSAA** | | 1.64 | 0.0732 (L) | |
| **EtFOSAA** | | 1.50 | 0.0732 (L) | |
| **N-MeFOSE** | | 17.4 | 0.732 (L) | |
| **N-EtFOSE** | | 13.2 | 0.549 (L) | |
| **HFPO-DA** | | 6.80 | 0.293 (L) | 5:09 |
| **ADONA** | | 6.22 | 0.293 (L) | 5:49 |
| **9Cl-PF3ONS** | | 6.56 | 0.293 (L) | 8:00 |
| **11Cl-PF3OUdS** | | 5.89 | 0.293 (L) | 8:39 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-104_Form1A_FC0L_022S55_SJ2698231.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MSD)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:13:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.5 | 91.3 | 2:03 |
| **13C5-PFPeA** | | 20.0 | 21.5 | 107 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.40 | 94.0 | 4:59 |
| **13C4-PFHpA** | | 10.0 | 7.85 | 78.5 | 5:33 |
| **13C8-PFOA** | | 10.0 | 8.55 | 85.5 | 6:23 |
| **13C9-PFNA** | | 5.00 | 4.51 | 90.2 | 7:14 |
| **13C6-PFDA** | | 5.00 | 5.03 | 101 | 7:42 |
| **13C7-PFUnA** | | 5.00 | 3.79 | 75.7 | 7:59 |
| **13C2-PFDoA** | | 5.00 | 4.71 | 94.2 | 8:16 |
| **13C2-PFTeDA** | | 5.00 | 3.58 | 71.6 | 9:02 |
| **13C3-PFBS** | | 10.0 | 9.92 | 99.2 | 4:56 |
| **13C3-PFHxS** | | 10.0 | 9.55 | 95.5 | 6:29 |
| **13C8-PFOS** | | 10.0 | 9.84 | 98.4 | 7:47 |
| **13C2-4:2 FTS** | | 20.0 | 25.6 | 128 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 27.4 | 137 | 6:03 |
| **13C2-8:2 FTS** | | 20.0 | 25.6 | 128 | 7:33 |
| **13C8-PFOSA** | | 10.0 | 9.16 | 91.6 | 8:55 |
| **D3-N-MeFOSA** | | 10.0 | 5.02 | 50.2 | 10:13 |
| **D5-N-EtFOSA** | V | 10.0 | 4.48 | 44.8 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 23.2 | 116 | 7:44 |
| **D5-EtFOSAA** | | 20.0 | 22.5 | 113 | 7:52 |
| **d7-NMe-FOSE** | | 100 | 58.0 | 58.0 | 10:04 |
| **d9-NEt-FOSE** | | 100 | 59.4 | 59.4 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 45.4 | 114 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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Report Filename: PFC_FC_LC_PFAS_WG71043-104_Form2_FC0L_022S55_SJ2698231.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| COMPOUND | LAB FLAG [1] | PERCENT RECOVERY (%) CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | CS7 | CS8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **PFBA** | | | 106 | 106 | 101 | 99.3 | 93.4 | 95.7 | 99.1 | |
| **PFPeA** | | | 103 | 104 | 103 | 100 | 93.3 | 97.4 | 99.5 | |
| **PFHxA** | | | 106 | 118 | 99.2 | 92.8 | 92.8 | 94.1 | 96.4 | |
| **PFHpA** | | | 117 | 111 | 103 | 94.5 | 88.1 | 87.9 | 97.8 | |
| **PFOA** | | | 118 | 108 | 107 | 95.9 | 90.0 | 88.9 | 92.8 | |
| **PFNA** | | | 105 | 103 | 95.1 | 103 | 99.5 | 95.7 | 98.5 | |
| **PFDA** | | | 99.1 | 98.3 | 106 | 113 | 78.6 | 107 | 99.2 | |
| **PFUnA** | | | 104 | 98.1 | 98.8 | 106 | 97.6 | 99.8 | 95.7 | |
| **PFDoA** | | | 94.3 | 98.3 | 119 | 118 | 101 | 93.7 | 75.6 | |
| **PFTrDA** | | | 118 | 102 | 104 | 104 | 87.6 | 84.7 | | |
| **PFTeDA** | | | 114 | 111 | 106 | 111 | 96.0 | 87.8 | 74.4 | |
| **PFBS** | | | 101 | 96.8 | 101 | 104 | 92.7 | 101 | 103 | |
| **PFPeS** | | | 104 | 100 | 103 | 99.0 | 96.8 | 104 | 91.5 | |
| **PFHxS** | | | 111 | 103 | 97.0 | 99.2 | 90.7 | 95.4 | 104 | |
| **PFHpS** | | | 97.9 | 97.1 | 99.0 | 98.4 | 97.0 | 110 | 101 | |
| **PFOS** | | | 93.3 | 94.7 | 105 | 90.4 | 93.8 | 109 | 115 | |
| **PFNS** | | | 97.7 | 106 | 105 | 82.0 | 99.6 | 108 | 103 | |
| **PFDS** | | | 101 | 108 | 96.6 | 105 | 85.4 | 101 | 102 | |
| **PFDoS** | | | 98.2 | 92.4 | 102 | 96.1 | 93.4 | 106 | 111 | |
| **4:2 FTS** | | | 113 | 104 | 107 | 108 | 95.7 | 97.0 | 76.7 | |
| **6:2 FTS** | | | 114 | 96.8 | 113 | 114 | 101 | 88.6 | 72.2 | |
| **8:2 FTS** | | | 99.5 | 114 | 111 | 104 | 89.0 | 82.6 | | |
| **PFOSA** | | | 103 | 100 | 98.9 | 100 | 98.7 | 97.3 | 102 | |
| **N-MeFOSA** | | | 97.5 | 106 | 115 | 108 | 100 | 95.6 | 78.7 | |
| **N-EtFOSA** | | | 89.3 | 105 | 104 | 101 | 94.6 | 102 | 104 | |
| **MeFOSAA** | | | 107 | 96.9 | 96.9 | 113 | 80.2 | 118 | 87.7 | |
| **EtFOSAA** | | | 123 | 93.1 | 114 | 83.4 | 83.0 | 95.3 | 109 | |
| **N-MeFOSE** | | | 102 | 104 | 105 | 102 | 98.7 | 97.4 | 90.4 | |
| **N-EtFOSE** | | | 101 | 103 | 104 | 106 | 97.9 | 95.8 | 91.6 | |
| **HFPO-DA** | | | 101 | 112 | 105 | 105 | 99.8 | 95.4 | 82.2 | |
| **ADONA** | | | 92.0 | 103 | 103 | 103 | 90.3 | 107 | 102 | |
| **9Cl-PF3ONS** | | | 92.9 | 112 | 106 | 113 | 98.4 | 92.3 | 85.8 | |
| **11Cl-PF3OUdS** | | | 95.6 | 106 | 103 | 99.8 | 90.6 | 97.3 | 108 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_14-Jan-2020_FC0L__Form3A_GS86158.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.1 | 103 | 101 | 99.0 | 100 | 99.5 | 98.9 | |
| **13C5-PFPeA** | | | 98.5 | 106 | 111 | 105 | 108 | 92.0 | 79.5 | |
| **13C5-PFHxA** | | | 100 | 99.0 | 101 | 107 | 103 | 96.7 | 93.8 | |
| **13C4-PFHpA** | | | 94.1 | 106 | 98.7 | 98.4 | 106 | 105 | 92.1 | |
| **13C8-PFOA** | | | 93.2 | 105 | 97.8 | 98.7 | 101 | 106 | 98.5 | |
| **13C9-PFNA** | | | 96.5 | 104 | 111 | 96.6 | 91.2 | 97.2 | 104 | |
| **13C6-PFDA** | | | 99.7 | 101 | 85.0 | 94.1 | 109 | 120 | 91.7 | |
| **13C7-PFUnA** | | | 105 | 119 | 112 | 101 | 85.2 | 77.9 | | |
| **13C2-PFDoA** | | | 89.7 | 100 | 90.1 | 92.9 | 97.0 | 119 | 111 | |
| **13C2-PFTeDA** | | | 88.7 | 88.7 | 91.6 | 83.5 | 89.1 | 129 | 130 | |
| **13C3-PFBS** | | | 104 | 110 | 102 | 105 | 107 | 91.2 | 81.4 | |
| **13C3-PFHxS** | | | 99.6 | 105 | 97.7 | 98.1 | 103 | 97.5 | 99.1 | |
| **13C8-PFOS** | | | 103 | 98.6 | 115 | 97.5 | 94.6 | 96.9 | 94.5 | |
| **13C2-4:2 FTS** | | | 109 | 117 | 108 | 106 | 94.0 | 78.0 | 87.6 | |
| **13C2-6:2 FTS** | | | 99.6 | 107 | 98.8 | 97.3 | 96.7 | 92.8 | 108 | |
| **13C2-8:2 FTS** | | | 93.1 | 96.9 | 90.3 | 93.7 | 101 | 92.4 | 132 | |
| **13C8-PFOSA** | | | 93.6 | 95.5 | 105 | 86.5 | 82.5 | 104 | 132 | |
| **D3-N-MeFOSA** | | | 94.7 | 95.8 | 112 | 93.7 | 88.7 | 115 | | |
| **D5-N-EtFOSA** | | | 91.3 | 95.0 | 113 | 93.0 | 88.0 | 105 | 116 | |
| **D3-MeFOSAA** | | | 96.3 | 92.1 | 107 | 75.2 | 102 | 88.3 | 140 | |
| **D5-EtFOSAA** | | | 91.7 | 95.7 | 112 | 98.4 | 92.1 | 110 | 99.8 | |
| **d7-NMe-FOSE** | | | 89.0 | 94.7 | 117 | 94.0 | 86.4 | 102 | 117 | |
| **d9-NEt-FOSE** | | | 90.4 | 95.2 | 115 | 92.9 | 85.3 | 102 | 119 | |
| **13C3-HFPO-DA** | | | 111 | 108 | 113 | 102 | 108 | 85.1 | 72.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 2:01 | 2:01 | 2:01 | 2:01 | 2:02 | 2:01 | 2:01 | | 2:01 |
| **PFPeA** | | | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | | 4:15 |
| **PFHxA** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFHpA** | | | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | | 5:24 |
| **PFOA** | | | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | | 6:14 |
| **PFNA** | | | 7:04 | 7:03 | 7:04 | 7:04 | 7:04 | 7:04 | 7:03 | | 7:04 |
| **PFDA** | | | 7:33 | 7:33 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **PFUnA** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | 7:52 |
| **PFDoA** | | | 8:09 | 8:08 | 8:08 | 8:09 | 8:08 | 8:08 | 8:08 | | 8:08 |
| **PFTrDA** | | | 8:30 | 8:29 | 8:30 | 8:30 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | | 8:56 |
| **PFBS** | | | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | | 4:49 |
| **PFPeS** | | | 5:26 | 5:26 | 5:26 | 5:27 | 5:26 | 5:26 | 5:26 | | 5:26 |
| **PFHxS** | | | 6:21 | 6:20 | 6:21 | 6:21 | 6:21 | 6:20 | 6:20 | | 6:21 |
| **PFHpS** | | | 7:10 | 7:10 | 7:10 | 7:11 | 7:10 | 7:11 | 7:10 | | 7:10 |
| **PFOS** | | | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | | 7:39 |
| **PFNS** | | | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | | 7:57 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | | 9:07 |
| **4:2 FTS** | | | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | | 4:43 |
| **6:2 FTS** | | | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | | 5:54 |
| **8:2 FTS** | | | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | | 8:46 |
| **N-MeFOSA** | | | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | | 10:06 |
| **N-EtFOSA** | | | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | | 10:24 |
| **MeFOSAA** | | | 7:36 | 7:36 | 7:36 | 7:37 | 7:36 | 7:36 | 7:36 | | 7:36 |
| **EtFOSAA** | | | 7:45 | 7:44 | 7:44 | 7:45 | 7:44 | 7:44 | 7:44 | | 7:44 |
| **N-MeFOSE** | | | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | | 9:59 |
| **N-EtFOSE** | | | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | | 10:17 |
| **HFPO-DA** | | | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | | 5:01 |
| **ADONA** | | | 5:40 | 5:39 | 5:40 | 5:40 | 5:39 | 5:40 | 5:39 | | 5:40 |
| **9Cl-PF3ONS** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | 7:52 |
| **11Cl-PF3OUdS** | | | 8:32 | 8:32 | 8:32 | 8:32 | 8:32 | 8:32 | 8:31 | | 8:32 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 2:01 | 2:01 | 2:01 | 2:01 | 2:01 | 2:00 | 2:00 | | 2:01 |
| **13C5-PFPeA** | | | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | | 4:15 |
| **13C5-PFHxA** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C4-PFHpA** | | | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | | 5:24 |
| **13C8-PFOA** | | | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:13 | | 6:14 |
| **13C9-PFNA** | | | 7:03 | 7:03 | 7:03 | 7:04 | 7:03 | 7:04 | 7:03 | | 7:03 |
| **13C6-PFDA** | | | 7:33 | 7:33 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | | 7:52 |
| **13C2-PFDoA** | | | 8:09 | 8:08 | 8:08 | 8:09 | 8:08 | 8:08 | 8:08 | | 8:08 |
| **13C2-PFTeDA** | | | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | | 8:56 |
| **13C3-PFBS** | | | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | | 4:49 |
| **13C3-PFHxS** | | | 6:20 | 6:20 | 6:20 | 6:21 | 6:20 | 6:20 | 6:20 | | 6:20 |
| **13C8-PFOS** | | | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | | 7:39 |
| **13C2-4:2 FTS** | | | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | | 4:43 |
| **13C2-6:2 FTS** | | | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | | 5:54 |
| **13C2-8:2 FTS** | | | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | | 8:46 |
| **D3-N-MeFOSA** | | | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | | | 10:06 |
| **D5-N-EtFOSA** | | | 10:23 | 10:24 | 10:24 | 10:24 | 10:23 | 10:24 | 10:23 | | 10:24 |
| **D3-MeFOSAA** | | | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | | 7:36 |
| **D5-EtFOSAA** | | | 7:44 | 7:44 | 7:44 | 7:45 | 7:44 | 7:44 | 7:44 | | 7:44 |
| **d7-NMe-FOSE** | | | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | | 9:58 |
| **d9-NEt-FOSE** | | | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | | 10:16 |
| **13C3-HFPO-DA** | | | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | | 5:01 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 32 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 11:28:35 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:02 | 40.0 | 40.7 | 102 |
| **PFPeA** | | 4:16 | 20.0 | 19.9 | 99.4 |
| **PFHxA** | | 4:53 | 10.0 | 10.3 | 103 |
| **PFHpA** | | 5:28 | 10.0 | 9.53 | 95.3 |
| **PFOA** | | 6:18 | 10.0 | 9.94 | 99.4 |
| **PFNA** | | 7:09 | 10.0 | 9.75 | 97.5 |
| **PFDA** | | 7:37 | 10.0 | 9.63 | 96.3 |
| **PFUnA** | | 7:54 | 10.0 | 10.5 | 105 |
| **PFDoA** | | 8:11 | 10.0 | 10.9 | 109 |
| **PFTrDA** | | 8:31 | 10.0 | 10.9 | 109 |
| **PFTeDA** | | 8:57 | 10.0 | 10.9 | 109 |
| **PFBS** | | 4:51 | 10.0 | 10.2 | 102 |
| **PFPeS** | | 5:29 | 10.0 | 10.9 | 109 |
| **PFHxS** | | 6:24 | 10.0 | 9.06 | 90.6 |
| **PFHpS** | | 7:15 | 10.0 | 9.74 | 97.4 |
| **PFOS** | | 7:42 | 10.0 | 10.2 | 102 |
| **PFNS** | | 7:59 | 10.0 | 7.46 | 74.6 |
| **PFDS** | | 8:18 | 10.0 | 9.16 | 91.6 |
| **PFDoS** | | 9:08 | 10.0 | 9.72 | 97.2 |
| **4:2 FTS** | | 4:45 | 40.0 | 41.1 | 103 |
| **6:2 FTS** | | 5:58 | 36.0 | 39.2 | 109 |
| **8:2 FTS** | | 7:27 | 40.0 | 38.5 | 96.3 |
| **PFOSA** | | 8:50 | 10.0 | 10.1 | 101 |
| **N-MeFOSA** | | 10:08 | 11.5 | 13.0 | 113 |
| **N-EtFOSA** | | 10:26 | 25.0 | 25.9 | 103 |
| **MeFOSAA** | | 7:39 | 10.0 | 9.55 | 95.5 |
| **EtFOSAA** | | 7:47 | 10.0 | 10.3 | 103 |
| **N-MeFOSE** | | 10:01 | 100 | 107 | 107 |
| **N-EtFOSE** | | 10:18 | 75.0 | 76.3 | 102 |
| **HFPO-DA** | | 5:04 | 40.0 | 43.0 | 108 |
| **ADONA** | | 5:43 | 40.0 | 38.9 | 97.2 |
| **9Cl-PF3ONS** | | 7:54 | 40.0 | 31.7 | 79.3 |
| **11Cl-PF3OUdS** | | 8:33 | 40.0 | 40.9 | 102 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFOA_FC_LC_FC0L_022S32__Form4A_SJ2698205.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 32 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 11:28:35 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:02 | 40.0 | 38.6 | 96.4 |
| **13C5-PFPeA** | | 4:16 | 20.0 | 21.1 | 105 |
| **13C5-PFHxA** | | 4:53 | 10.0 | 9.62 | 96.2 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 9.62 | 96.2 |
| **13C8-PFOA** | | 6:17 | 10.0 | 9.18 | 91.8 |
| **13C9-PFNA** | | 7:08 | 5.00 | 5.26 | 105 |
| **13C6-PFDA** | | 7:37 | 5.00 | 5.19 | 104 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 4.86 | 97.3 |
| **13C2-PFDoA** | | 8:11 | 5.00 | 4.99 | 99.9 |
| **13C2-PFTeDA** | | 8:57 | 5.00 | 4.35 | 86.9 |
| **13C3-PFBS** | | 4:51 | 9.18 | 9.79 | 107 |
| **13C3-PFHxS** | | 6:24 | 10.0 | 10.5 | 105 |
| **13C8-PFOS** | | 7:42 | 10.0 | 10.3 | 103 |
| **13C2-4:2 FTS** | | 4:45 | 20.0 | 28.4 | 142 |
| **13C2-6:2 FTS** | | 5:58 | 20.0 | 28.5 | 142 |
| **13C2-8:2 FTS** | | 7:27 | 20.0 | 31.1 | 156 |
| **13C8-PFOSA** | | 8:50 | 10.0 | 10.4 | 104 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 8.54 | 85.4 |
| **D5-N-EtFOSA** | | 10:25 | 10.0 | 8.50 | 85.0 |
| **D3-MeFOSAA** | | 7:39 | 20.0 | 21.9 | 110 |
| **D5-EtFOSAA** | | 7:47 | 20.0 | 19.9 | 99.3 |
| **d7-NMe-FOSE** | | 9:59 | 100 | 101 | 101 |
| **d9-NEt-FOSE** | | 10:17 | 100 | 99.6 | 99.6 |
| **13C3-HFPO-DA** | | 5:04 | 40.0 | 43.7 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 56 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 17:26:19 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:03 | 40.0 | 40.5 | 101 |
| **PFPeA** | | 4:21 | 20.0 | 20.0 | 99.9 |
| **PFHxA** | | 4:59 | 10.0 | 10.3 | 103 |
| **PFHpA** | | 5:33 | 10.0 | 10.2 | 102 |
| **PFOA** | | 6:23 | 10.0 | 9.84 | 98.4 |
| **PFNA** | | 7:14 | 10.0 | 9.94 | 99.4 |
| **PFDA** | | 7:42 | 10.0 | 9.28 | 92.8 |
| **PFUnA** | | 7:59 | 10.0 | 9.15 | 91.5 |
| **PFDoA** | | 8:16 | 10.0 | 11.5 | 115 |
| **PFTrDA** | | 8:36 | 10.0 | 11.6 | 116 |
| **PFTeDA** | | 9:02 | 10.0 | 10.6 | 106 |
| **PFBS** | | 4:56 | 10.0 | 10.2 | 102 |
| **PFPeS** | | 5:35 | 10.0 | 10.8 | 108 |
| **PFHxS** | | 6:29 | 10.0 | 9.24 | 92.4 |
| **PFHpS** | | 7:20 | 10.0 | 10.3 | 103 |
| **PFOS** | | 7:47 | 10.0 | 11.2 | 112 |
| **PFNS** | | 8:04 | 10.0 | 11.4 | 114 |
| **PFDS** | | 8:23 | 10.0 | 11.2 | 112 |
| **PFDoS** | | 9:13 | 10.0 | 10.4 | 104 |
| **4:2 FTS** | | 4:50 | 40.0 | 43.0 | 107 |
| **6:2 FTS** | | 6:03 | 36.0 | 43.2 | 120 |
| **8:2 FTS** | | 7:33 | 40.0 | 34.5 | 86.3 |
| **PFOSA** | | 8:55 | 10.0 | 10.4 | 104 |
| **N-MeFOSA** | | 10:13 | 11.5 | 12.0 | 104 |
| **N-EtFOSA** | | 10:31 | 25.0 | 24.3 | 97.3 |
| **MeFOSAA** | | 7:45 | 10.0 | 10.0 | 100 |
| **EtFOSAA** | | 7:52 | 10.0 | 9.28 | 92.8 |
| **N-MeFOSE** | | 10:06 | 100 | 111 | 111 |
| **N-EtFOSE** | | 10:23 | 75.0 | 79.3 | 106 |
| **HFPO-DA** | | 5:09 | 40.0 | 43.7 | 109 |
| **ADONA** | | 5:49 | 40.0 | 37.4 | 93.6 |
| **9Cl-PF3ONS** | | 7:59 | 40.0 | 42.8 | 107 |
| **11Cl-PF3OUdS** | | 8:38 | 40.0 | 39.4 | 98.5 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFOA_FC_LC_FC0L_022S56__Form4A_SJ2698232.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 56 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 17:26:19 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:02 | 40.0 | 37.5 | 93.8 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.7 | 108 |
| **13C5-PFHxA** | | 4:59 | 10.0 | 10.2 | 102 |
| **13C4-PFHpA** | | 5:33 | 10.0 | 8.81 | 88.1 |
| **13C8-PFOA** | | 6:23 | 10.0 | 9.10 | 91.0 |
| **13C9-PFNA** | | 7:14 | 5.00 | 5.01 | 100 |
| **13C6-PFDA** | | 7:42 | 5.00 | 5.02 | 100 |
| **13C7-PFUnA** | | 7:59 | 5.00 | 4.73 | 94.5 |
| **13C2-PFDoA** | | 8:16 | 5.00 | 4.63 | 92.6 |
| **13C2-PFTeDA** | | 9:02 | 5.00 | 3.92 | 78.4 |
| **13C3-PFBS** | | 4:56 | 9.18 | 9.61 | 105 |
| **13C3-PFHxS** | | 6:29 | 10.0 | 10.4 | 104 |
| **13C8-PFOS** | | 7:47 | 10.0 | 9.38 | 93.8 |
| **13C2-4:2 FTS** | | 4:50 | 20.0 | 29.4 | 147 |
| **13C2-6:2 FTS** | | 6:03 | 20.0 | 28.4 | 142 |
| **13C2-8:2 FTS** | | 7:33 | 20.0 | 29.6 | 148 |
| **13C8-PFOSA** | | 8:55 | 10.0 | 10.5 | 105 |
| **D3-N-MeFOSA** | | 10:13 | 10.0 | 9.23 | 92.3 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 9.20 | 92.0 |
| **D3-MeFOSAA** | | 7:44 | 20.0 | 21.7 | 108 |
| **D5-EtFOSAA** | | 7:52 | 20.0 | 22.5 | 112 |
| **d7-NMe-FOSE** | | 10:04 | 100 | 103 | 103 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 107 | 107 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 45.2 | 113 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFOA_FC_LC_FC0L_022S56__Form4B_SJ2698232.html; Workgroup: WG71043; Design ID: 3770 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| HBCDD | alpha-hexabromocyclododecane (a-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | beta-hexabromocyclododecane (b-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | gamma-hexabromocyclododecane (g-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | Y | Y | Y | | | | | | | | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| TBBPA | Tetrabromobisphenol A | SGS AXYS MLA-079 | MLA-079 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum: CALA | Solids: Alaska DEC | Solids: ANAB DoD ** | Solids: ANAB ISO 17025 | Solids: CALA | Solids: California WB | Solids: Florida DOH | Solids: Maine DOH | Solids: Minnesota DOH | Solids: New Jersey DEP | Solids: New York DOH | Solids: Virginia DGS | Solids: Washington DE | Tissue: ANAB DoD ** | Tissue: ANAB ISO 17025 | Tissue: CALA | Tissue: Florida DOH | Tissue: Minnesota DOH | Tissue: New Jersey DEP | Tissue: Virginia DGS | Urine: CALA | Water: CALA | Water, Non-Potable: Alaska DEC | Water, Non-Potable: ANAB DoD ** | Water, Non-Potable: ANAB ISO 17025 | Water, Non-Potable: California WB | Water, Non-Potable: Florida DOH | Water, Non-Potable: Maine DOH | Water, Non-Potable: Minnesota DOH | Water, Non-Potable: New Jersey DEP | Water, Non-Potable: New York DOH | Water, Non-Potable: Pennsylvania DEP | Water, Non-Potable: Virginia DGS | Water, Non-Potable: Washington DE * | AFFF: ANAB DoD ** | AFFF: ANAB ISO 17025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

**Legend**

| | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forming foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| HBCDD | Hexabromocyclododecane |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TBBPA | Tetrabromobisphenol A |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## SOLID SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG71538**

**Analysis WG71043**

## 18 February 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**SOLID SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**
**4095:** L32482-1 to -15

**Project name: P1007/60608807**
**Work order number: 3000025335**

**18 February 2020**

## NARRATIVE

This narrative describes the analysis of fifteen solid samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 18th of December, 2019. The temperature of the samples upon receipt was 4.5°C, marginally exceeding the method recommend sample arrival temperature requirement (<4°C). The samples were stored frozen at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG71043; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples for the analysis batch consisted of a laboratory procedural blank sample, a laboratory-generated reference sample referred to as an Ongoing Precision and Recovery (OPR) sample, a matrix spike sample, and a duplicate of the matrix spike sample. The laboratory procedural blank and OPR samples were prepared using a reference solid as the matrix. Sample MW4A-soil-74-75-03-121319 (SGS AXYS ID: L32482-11) was used to make the MS/MSD samples.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 5 grams of each sample was accurately weighed. After addition of isotopically labelled surrogate standards, the sample was extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants were combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution was diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate was spiked with recovery standards and analyzed by LCMS/MS.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard CS1 or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L32482-X; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS IDs with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

The laboratory qualifiers used to report results were as follows:

J = concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RL)
V = surrogate percent recovery was not within method/contract control limits
U = identifies a target analyte that was not detected

Results were reported with concentration units of nanograms per gram (ng/g) on dry weight basis. Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

QC samples were prepared alongside the field samples and carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, laboratory procedural blank, precision and labeled compound recovery specifications were met with the following exceptions:

In the continuing calibration verifications (FC0L_022 S:32), the surrogate compound 13C 8:2 FTS was observed above the method control limit. As the native analyte 8:2 FTS was observed within method specifications, this is deemed not to have any effect on the data.

Percent recoveries of several surrogates in the client samples were observed to be outside the method limits and these surrogates have been flagged with a 'V' on the report forms. As the isotope dilution method of quantification produces data that are recovery corrected, the slight variance from the method acceptance criteria is deemed not to affect the quantification of these analytes. Percent surrogate recoveries are used as a general method performance indicator only.

**ANALYTICAL DISCUSSION**

No analytical difficulties were encountered.

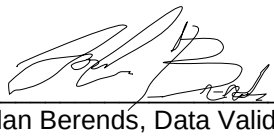
**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup, DPWG71538. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**



Signed: Jordan Berends, Data Validation Chemist

18-Feb-2020
Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 06**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue and AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] |
|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 530-2100 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 |
| Perfluoroalkyl sulfonates | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Fluorotelomer sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | 40 |
| Perfluorooctane sulfonamides | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamide ethanols | 8 | 5300 | 0.8 | 1.6 | 2.0 | 100 |
| Per- and polyfluoroether carboxylates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |
| Ether sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |

1 Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

2 A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

3 A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

4 A maximum of 2 g of tissue may be analyzed.

5 A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. Other AFFF products such as fluoroprotein foams maybe be analyzed using this method, but need special handling. Consult product Safety Data Sheets (SDS) and other information before confirming. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS.

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Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

### Perfluorooctane sulfonamidoacetic acids

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)


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**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)

Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction

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(SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**List of Surrogate and Recovery Standards**

| Surrogate Standards | Recovery Standards |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_4$-PFOA |
| $^{13}C_4$-PFHpA | $^{13}C_5$-PFNA |
| $^{13}C_8$-PFOA | $^{13}C_2$-PFDA |
| $^{13}C_9$-PFNA | $^{18}O_2$-PFHxS |
| $^{13}C_6$-PFDA | $^{13}C_4$-PFOS |
| $^{13}C_7$-PFUnA | |
| $^{13}C_2$-PFDoA | |
| $^{13}C_2$-PFTeDA | |
| $^{13}C_3$-PFBS | |
| $^{13}C_3$-PFHxS | |
| $^{13}C_8$-PFOS | |
| $^{13}C_2$-4:2 FTS | |
| $^{13}C_2$-6:2 FTS | |

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| | |
|---|---|
| $^{13}C_2$-8:2 FTS | |
| $^{13}C_8$-PFOSA | |
| $D_3$-N-MeFOSA | |
| $D_5$-N-EtFOSA | |
| $D_3$-N-MeFOSAA | |
| $D_5$-N-EtFOSAA | |
| $D_7$-N-MeFOSE | |
| $D_9$-N-EtFOSE | |
| $^{13}C_3$-HFPO-DA | |

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where} \quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

## 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes and Quantification References

| Target analytes | Quantified using |
|---|---|
| PFBA | $^{13}C_4$-PFBA |
| PFPeA | $^{13}C_5$-PFPeA |
| PFHxA | $^{13}C_5$-PFHxA |
| PFHpA | $^{13}C_4$-PFHpA |
| PFOA | $^{13}C_8$-PFOA |
| PFNA | $^{13}C_9$-PFNA |
| PFDA | $^{13}C_6$-PFDA |
| PFUnA | $^{13}C_7$-PFUnA |
| PFDoA | $^{13}C_2$-PFDoA |
| PFTrDA | $^{13}C_2$-PFTeDA |
| PFTeDA | $^{13}C_2$-PFTeDA |
| PFBS | $^{13}C_3$-PFBS [1] |
| PFPeS | $^{13}C_3$-PFHxS |
| PFHxS | $^{13}C_3$-PFHxS |
| PFHpS | $^{13}C_8$-PFOS |
| PFOS | $^{13}C_8$-PFOS |
| PFNS | $^{13}C_8$-PFOS |
| PFDS | $^{13}C_8$-PFOS |
| PFDoS | $^{13}C_8$-PFOS |
| 4:2 FTS | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | $^{13}C_2$-8:2 FTS |
| PFOSA | $^{13}C_8$-PFOSA |
| N-MeFOSA | $D_3$-N-MeFOSA |
| N-EtFOSA | $D_5$-N-EtFOSA |
| N-MeFOSAA | $D_3$-N-MeFOSAA |
| N-EtFOSAA | $D_5$-N-EtFOSAA |
| N-MeFOSE | $D_7$-N-MeFOSE |
| N-EtFOSE | $D_9$-N-EtFOSE |
| HFPO-DA | $^{13}C_3$-HFPO-DA |
| ADONA | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | $^{13}C_3$-HFPO-DA |

[1] If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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| Surrogate standards | Quantified using |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | $^{13}C_4$-PFOA |
| $^{13}C_8$-PFOA | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_9$-PFNA | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | $^{13}C_4$-PFOS |
| $^{13}C_2$-4:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | $^{13}C_2$-PFHxA |
| **Recovery standards** | **Quantified using** |
| $^{13}C_3$-PFBA | External |
| $^{13}C_2$-PFHxA | External |
| $^{13}C_4$-PFOA | External |
| $^{13}C_5$-PFNA | External |
| $^{13}C_2$-PFDA | External |
| $^{18}O_2$-PFHxS | External |
| $^{13}C_4$-PFOS | External |
| $^{13}C_3$-PFBA | External |

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) |
|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 |

Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater

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## DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid And AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] |
|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 |
| | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 |
| | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 |
| | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] |
| $D_5$-N-EtFOSA | 20-150 | [2] |
| | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] |
| $D_5$-N-EtFOSAA | 50-150 | [2] |
| | | |
| $D_7$-N-MeFOSE | 30-150 | [2] |
| $D_9$-N-EtFOSE | 30-150 | [2] |
| | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

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## SGS AXYS Analytical Services Ltd.

### QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL. |

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| QC Parameter | Specification |
|---|---|
| | Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Anion Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |



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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90 day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies. For aqueous samples under DoD accreditation, the sample hold time is ≤14 days.

[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement. For samples under DoD accreditation the extract hold time is ≤28 days with storage at room temperature.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Solid Samples** |
| **Data Package Identification: DPWG71538** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG71043-101 |
| OPR | WG71043-102 |
| MATRX SPIKE | WG71043-103 |
| MATRX SPIKE DUPLICATE | WG71043-104 |
| | |
| MW4A-soil-8-8.5-01-121319 | L32482-1 |
| MW4A-soil-20-21-01-121319 | L32482-2 |
| MW4A-soil-21-23-01-121319 | L32482-3 |
| MW4A-soil-31-32-01-121319 | L32482-4 |
| MW4A-soil-37-38-01-121319 | L32482-5 |
| MW4A-soil-38-40-01-121319 | L32482-6 |
| MW4A-soil-50-52-01-121319 | L32482-7 |
| MW4A-soil-68-70-01-121319 | L32482-8 |
| MW4A-soil-74-75-01-121319 | L32482-9 |
| MW4A-soil-74-75-02-121319 | L32482-10 |
| MW4A-soil-74-75-03-121319 | L32482-11 |
| MW4A-soil-60-62-01-121319 | L32482-12 |
| MW4A-soil-80-81-01-121319 | L32482-13 |
| MW4A-soil-85-86-01-121319 | L32482-14 |
| MW4A-soil-88-89-01-121319 | L32482-15 |
| | |
| | |
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| | |
| | |

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# CHAIN OF CUSTODY



2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60608807
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MNA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| MW4A-soil-8-8.5-01-121319 | soil | 12/13/19 | 905 | HDPE/1 | L32482-1 | X | | | |
| MW4A-soil-20-21-01-121319 | soil | 12/13/19 | 940 | HDPE/1 | -2 | X | | | |
| MW4A-soil-21-23-01-121319 | soil | 12/13/19 | 945 | HDPE/1 | -3 | X | | | |
| MW4A-soil-31-32-01-121319 | soil | 12/13/19 | 955 | HDPE/1 | -4 | X | | | |
| MW4A-soil-37-38-01-121319 | soil | 12/13/19 | 1000 | HDPE/1 | -5 | X | | | |
| MW4A-soil-38-40-01-121319 | soil | 12/13/19 | 1005 | HDPE/1 | -6 | X | | | |
| MW4A-soil-50-52-01-121319 | soil | 12/13/19 | 1018 | HDPE/1 | -7 | X | | | |
| MW4A-soil-68-70-01-121319 | soil | 12/13/19 | 1021 | HDPE/1 | -8 | X | | | |
| MW4A-soil-74-75-01-121319 | soil | 12/13/19 | 1035 | HDPE/1 | -9 | X | | | |
| MW4A-soil-74-75-02-121319 | soil | 12/13/19 | 1037 | HDPE/1 | -10 | X | | | |
| MW4A-soil-74-75-03-121319 | soil | 12/13/19 | 1040 | HDPE/1 | -11 | X | X | X | |

Relinquished by (Signature): Date 12/17/19 Time 1345
Relinquished by (Signature): Date Time

Received by (Signature): Jennifer Carlson
Date 18 Dec 2019 Time 12:15
Received by (Signature):
Date Time

Courier: FedEx
Waybill No.: 8099 6432 5864

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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# CHAIN OF CUSTODY 2 of 2

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 5542
Contact: Andrew Tarara
Phone:
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E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60608807
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLA-110 | MS | MSD | Trip Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| MW4A-soil-60-62-01-121319 | soil | 12/13/19 | 1019 | HDPE/1 | L32482-12 | X | | | | |
| MW4A-soil-80-81-01-121319 | soil | 12/13/19 | 1115 | HDPE/1 | -13 | X | | | | |
| MW4A-soil-85-86-01-121319 | soil | 12/13/19 | 1120 | HDPE/1 | -14 | X | | | | |
| MW4A-soil-88-89-01-121319 | soil | 12/13/19 | 1125 | HDPE/1 | -15 | X | | | | |
| 809964325864 | water | 12/13/19 | — | HDPE/1L | | | | | X | |

Relinquished by (Signature) Date 12/17/19 Time 1345
Relinquished by (Signature) Date Time
Received by (Signature) Jennifer Carlson
Date 18Dec2019 Time 12:15
Received by (Signature)
Date Time

Courier: FedEx
Waybill No.: 8099 6432 5864

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

# FedEx Express International Air Waybill

4.7°C 12:15
5687 bagged wet ice thawing

FedEx Tracking Number 8099 6432 5864 Form ID No. 0402

4095

**Origin Copy**

## 1 From

Date 12/17/19 Sender's FedEx Account Number [illegible]

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible]

Address

City [illegible] State Province [illegible]

Country [illegible] ZIP Postal Code [illegible]

## 2 To

Recipient's Name [illegible] Phone [illegible]

Company SGS AXYS Analytical

Address

Dept/Floor

Address [illegible]

City Sidney State Province BC

Country CA ZIP Postal Code [illegible]

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

## 3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 39 lbs. ☒ kg ☐ DIM 26 / 14 / 13 in. ☐ cm ☐

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | $80.00 |

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage 80.-

Total Value for Customs (Specify Currency) 80.-

## 4 Express Package Service

*Packages up to 150 lbs. / 68 kg*
*For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

1 ☐ FedEx Intl. Priority 6 ☐ FedEx Intl. First (Available to select locations.)
☐ 3 ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

## 5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☐ Other [illegible] PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

## 6 Special Handling

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

## 7 Payment

Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque

FedEx Acct. No. [redacted] Total Transportation

Credit Card Exp. Date Specify Currency

*Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No.

## 8 Your Internal Billing Reference

First 24 characters will appear on invoice.

## 9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:** [signature]

*This is not authorization to deliver this shipment without a recipient signature.*

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature: Jennifer Carlsen 18 Dec 2019

568

PART 158410
Rev. Date 11/08
©1994–2008 FedEx
PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6432 5864 0402 Form ID No.

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units |
|---|---|---|---|
| STPKS | CA YYJA | | 1 |
| | | | Total Volume (cm) |

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☒ World Service Center 5 ☐ Station

Forms Attached: ☒ CI ☐ CO

Base Charges ____ Declared Val. Chrg. ____ Other ____ ODA/OPA ____ Credit Card Auth. ____

FedEx Emp. # 125535 Audit Emp. # ____ Date 12/17/19 Time [illegible] Del. Courier Emp. # ____ Date ____ Time ____

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

RRDA 12/15

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 17-DEC-19

Waybill #: 809964325864
Date /Time Received: 18-DEC-19 12:15
Receipt No: WB26967

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE Signature:

Axys Sample ID's: L32482-1 to -15

Matrix Type: Seds/aq

Condition of Shipping Container: intact

Temperature upon Receipt: 4.7 Celcius bagged wet ice thawing

Thermometer ID: 5687
Corrected Temperature: 4.5 Celcius
Samples received above temperature: Yes /No

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Custody Seals: | Shipping Containers | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |
| | Samples | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jan. 07, 2020*
*11:55 AM*

For scanning
DPR
07-Jan-2020

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-1** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-8-8.5-01-121319 | 847054 | | | |
| 13-DEC-19 09:05 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-2** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-20-21-01-121319 | 847054 | | | |
| 13-DEC-19 09:40 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-3** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-21-23-01-121319 | 847054 | | | |
| 13-DEC-19 09:45 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-4** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-31-32-01-121319 | 847054 | | | |
| 13-DEC-19 09:55 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-5** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-37-38-01-121319 | 847054 | | | |
| 13-DEC-19 10:00 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-6** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-38-40-01-121319 | FIELDQC | | | |
| 13-DEC-19 10:05 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-7** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-50-52-01-121319 | 847054 | | | |
| 13-DEC-19 10:18 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-8** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-68-70-01-121319 | 847054 | | | |
| 13-DEC-19 10:21 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-9** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-74-75-01-121319 | 847054 | | | |
| 13-DEC-19 10:35 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-10** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-74-75-02-121319 | 847054 | | | |
| 13-DEC-19 10:37 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-11** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-74-75-03-121319 | 847054 | | | |
| 13-DEC-19 10:40 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-12** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-60-62-01-121319 | 847054 | | | |
| 13-DEC-19 10:19 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 07, 2020*
*11:55 AM*

**Login Number:** L32482
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32482-13** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-80-81-01-121319 | 847057 | | | |
| 13-DEC-19 11:15 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-14** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-85-86-01-121319 | 847054 | | | |
| 13-DEC-19 11:20 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |
| **L32482-15** | | 18-DEC-19 | | |
| | Storage: WIF-4, 2B | Permit #: P-2019-03152 | | |
| MW4A-soil-88-89-01-121319 | 847057 | | | |
| 13-DEC-19 11:25 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 250 mL plastic | USD |

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-8-8.5-01-121319**
**Sample Collection:**
**13-Dec-2019 09:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-1 |
| **Matrix:** | SOLID | **Sample Size:** | 5.40 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:18:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 11.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.296 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0741 (L) | |
| **PFHpA** | U | | 0.0741 (L) | |
| **PFOA** | U | | 0.0741 (L) | |
| **PFNA** | U | | 0.0741 (L) | |
| **PFDA** | U | | 0.0741 (L) | |
| **PFUnA** | U | | 0.0741 (L) | |
| **PFDoA** | U | | 0.0741 (L) | |
| **PFTrDA** | U | | 0.0741 (L) | |
| **PFTeDA** | U | | 0.0741 (L) | |
| **PFBS** | U | | 0.0741 (L) | |
| **PFPeS** | U | | 0.0741 (L) | |
| **PFHxS** | U | | 0.0741 (L) | |
| **PFHpS** | U | | 0.0741 (L) | |
| **PFOS** | U | | 0.0741 (L) | |
| **PFNS** | U | | 0.0741 (L) | |
| **PFDS** | U | | 0.0741 (L) | |
| **PFDoS** | U | | 0.0741 (L) | |
| **4:2 FTS** | U | | 0.296 (L) | |
| **6:2 FTS** | U | | 0.267 (L) | |
| **8:2 FTS** | U | | 0.296 (L) | |
| **PFOSA** | U | | 0.0741 (L) | |
| **N-MeFOSA** | U | | 0.0852 (L) | |
| **N-EtFOSA** | U | | 0.185 (L) | |
| **MeFOSAA** | U | | 0.0741 (L) | |
| **EtFOSAA** | U | | 0.0741 (L) | |
| **N-MeFOSE** | U | | 0.741 (L) | |
| **N-EtFOSE** | U | | 0.556 (L) | |
| **HFPO-DA** | U | | 0.296 (L) | |
| **ADONA** | U | | 0.296 (L) | |
| **9Cl-PF3ONS** | U | | 0.296 (L) | |
| **11Cl-PF3OUdS** | U | | 0.296 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-1_Form1A_FC0L_022S39_SJ2698215.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-8-8.5-01-121319**
**Sample Collection:**
**13-Dec-2019 09:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-1 |
| **Matrix:** | SOLID | **Sample Size:** | 5.40 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:18:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 11.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.6 | 2:00 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.02 | 90.2 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.59 | 85.9 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.80 | 88.0 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.61 | 92.2 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.94 | 98.8 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.01 | 100 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.65 | 93.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.40 | 67.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.71 | 97.1 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 10.3 | 103 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.22 | 92.2 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.0 | 135 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.3 | 131 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 27.8 | 139 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 2.81 | 28.1 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 1.65 | 16.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.7 | 113 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 22.2 | 111 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 56.9 | 56.9 | 9:59 |
| **d9-NEt-FOSE** | V | 100 | 46.4 | 46.4 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.4 | 109 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-1_Form2_FC0L_022S39_SJ2698215.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-20-21-01-121319**
**Sample Collection:**
**13-Dec-2019 09:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-2 |
| **Matrix:** | SOLID | **Sample Size:** | 5.39 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:31:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 11.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.297 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0742 (L) | |
| **PFHpA** | U | | 0.0742 (L) | |
| **PFOA** | U | | 0.0742 (L) | |
| **PFNA** | U | | 0.0742 (L) | |
| **PFDA** | U | | 0.0742 (L) | |
| **PFUnA** | U | | 0.0742 (L) | |
| **PFDoA** | U | | 0.0742 (L) | |
| **PFTrDA** | U | | 0.0742 (L) | |
| **PFTeDA** | U | | 0.0742 (L) | |
| **PFBS** | U | | 0.0742 (L) | |
| **PFPeS** | U | | 0.0742 (L) | |
| **PFHxS** | U | | 0.0742 (L) | |
| **PFHpS** | U | | 0.0742 (L) | |
| **PFOS** | U | | 0.0742 (L) | |
| **PFNS** | U | | 0.0742 (L) | |
| **PFDS** | U | | 0.0742 (L) | |
| **PFDoS** | U | | 0.0742 (L) | |
| **4:2 FTS** | U | | 0.297 (L) | |
| **6:2 FTS** | U | | 0.267 (L) | |
| **8:2 FTS** | U | | 0.297 (L) | |
| **PFOSA** | U | | 0.0742 (L) | |
| **N-MeFOSA** | U | | 0.0853 (L) | |
| **N-EtFOSA** | U | | 0.185 (L) | |
| **MeFOSAA** | U | | 0.0742 (L) | |
| **EtFOSAA** | U | | 0.0742 (L) | |
| **N-MeFOSE** | U | | 0.742 (L) | |
| **N-EtFOSE** | U | | 0.556 (L) | |
| **HFPO-DA** | U | | 0.297 (L) | |
| **ADONA** | U | | 0.297 (L) | |
| **9Cl-PF3ONS** | U | | 0.297 (L) | |
| **11Cl-PF3OUdS** | U | | 0.297 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-2_Form1A_FC0L_022S40_SJ2698216.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-20-21-01-121319**
**Sample Collection:**
**13-Dec-2019 09:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-2 |
| **Matrix:** | SOLID | **Sample Size:** | 5.39 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:31:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 11.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.2 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.5 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.09 | 90.9 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.48 | 94.8 | 5:27 |
| **13C8-PFOA** | | 10.0 | 9.13 | 91.3 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.5 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.66 | 93.3 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.70 | 93.9 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.76 | 95.3 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.80 | 75.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 10.3 | 103 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.73 | 97.3 | 6:24 |
| **13C8-PFOS** | | 10.0 | 10.4 | 104 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 26.5 | 132 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.5 | 133 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 30.1 | 150 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.9 | 109 | 8:49 |
| **D3-N-MeFOSA** | | 10.0 | 5.25 | 52.5 | 10:07 |
| **D5-N-EtFOSA** | | 10.0 | 5.13 | 51.3 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.4 | 117 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 22.2 | 111 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 67.2 | 67.2 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 67.1 | 67.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 42.0 | 105 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-2_Form2_FC0L_022S40_SJ2698216.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-21-23-01-121319**
**Sample Collection:**
**13-Dec-2019 09:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-3 |
| **Matrix:** | SOLID | **Sample Size:** | 5.23 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:44:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 12.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.306 (L) | |
| **PFPeA** | U | | 0.153 (L) | |
| **PFHxA** | U | | 0.0765 (L) | |
| **PFHpA** | U | | 0.0765 (L) | |
| **PFOA** | U | | 0.0765 (L) | |
| **PFNA** | U | | 0.0765 (L) | |
| **PFDA** | U | | 0.0765 (L) | |
| **PFUnA** | U | | 0.0765 (L) | |
| **PFDoA** | U | | 0.0765 (L) | |
| **PFTrDA** | U | | 0.0765 (L) | |
| **PFTeDA** | U | | 0.0765 (L) | |
| **PFBS** | U | | 0.0765 (L) | |
| **PFPeS** | U | | 0.0765 (L) | |
| **PFHxS** | U | | 0.0765 (L) | |
| **PFHpS** | U | | 0.0765 (L) | |
| **PFOS** | U | | 0.0765 (L) | |
| **PFNS** | U | | 0.0765 (L) | |
| **PFDS** | U | | 0.0765 (L) | |
| **PFDoS** | U | | 0.0765 (L) | |
| **4:2 FTS** | U | | 0.306 (L) | |
| **6:2 FTS** | U | | 0.275 (L) | |
| **8:2 FTS** | U | | 0.306 (L) | |
| **PFOSA** | U | | 0.0765 (L) | |
| **N-MeFOSA** | U | | 0.0880 (L) | |
| **N-EtFOSA** | U | | 0.191 (L) | |
| **MeFOSAA** | U | | 0.0765 (L) | |
| **EtFOSAA** | U | | 0.0765 (L) | |
| **N-MeFOSE** | U | | 0.765 (L) | |
| **N-EtFOSE** | U | | 0.574 (L) | |
| **HFPO-DA** | U | | 0.306 (L) | |
| **ADONA** | U | | 0.306 (L) | |
| **9Cl-PF3ONS** | U | | 0.306 (L) | |
| **11Cl-PF3OUdS** | U | | 0.306 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-3_Form1A_FC0L_022S41_SJ2698217.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-21-23-01-121319**
**Sample Collection:**
**13-Dec-2019 09:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-3 |
| **Matrix:** | SOLID | **Sample Size:** | 5.23 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:44:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 12.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.0 | 87.5 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 21.0 | 105 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.37 | 93.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.67 | 86.7 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.48 | 84.8 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.7 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.4 | 7:36 |
| **13C7-PFUnA** | | 5.00 | 4.83 | 96.7 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.49 | 89.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.64 | 72.8 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.92 | 99.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.65 | 96.5 | 6:24 |
| **13C8-PFOS** | | 10.0 | 8.78 | 87.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 28.1 | 141 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 28.0 | 140 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 25.2 | 126 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.31 | 93.1 | 8:48 |
| **D3-N-MeFOSA** | | 10.0 | 5.48 | 54.8 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.86 | 48.6 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.5 | 117 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.5 | 108 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 85.7 | 85.7 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 94.6 | 94.6 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 44.3 | 111 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-3_Form2_FC0L_022S41_SJ2698217.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-31-32-01-121319**
**Sample Collection:**
**13-Dec-2019 09:55**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-4 |
| **Matrix:** | SOLID | **Sample Size:** | 5.51 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:57:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.290 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0726 (L) | |
| **PFHpA** | U | | 0.0726 (L) | |
| **PFOA** | U | | 0.0726 (L) | |
| **PFNA** | U | | 0.0726 (L) | |
| **PFDA** | U | | 0.0726 (L) | |
| **PFUnA** | U | | 0.0726 (L) | |
| **PFDoA** | U | | 0.0726 (L) | |
| **PFTrDA** | U | | 0.0726 (L) | |
| **PFTeDA** | U | | 0.0726 (L) | |
| **PFBS** | U | | 0.0726 (L) | |
| **PFPeS** | U | | 0.0726 (L) | |
| **PFHxS** | U | | 0.0726 (L) | |
| **PFHpS** | U | | 0.0726 (L) | |
| **PFOS** | U | | 0.0726 (L) | |
| **PFNS** | U | | 0.0726 (L) | |
| **PFDS** | U | | 0.0726 (L) | |
| **PFDoS** | U | | 0.0726 (L) | |
| **4:2 FTS** | U | | 0.290 (L) | |
| **6:2 FTS** | U | | 0.261 (L) | |
| **8:2 FTS** | U | | 0.290 (L) | |
| **PFOSA** | U | | 0.0726 (L) | |
| **N-MeFOSA** | U | | 0.0834 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0726 (L) | |
| **EtFOSAA** | U | | 0.0726 (L) | |
| **N-MeFOSE** | U | | 0.726 (L) | |
| **N-EtFOSE** | U | | 0.544 (L) | |
| **HFPO-DA** | U | | 0.290 (L) | |
| **ADONA** | U | | 0.290 (L) | |
| **9Cl-PF3ONS** | U | | 0.290 (L) | |
| **11Cl-PF3OUdS** | U | | 0.290 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-4_Form1A_FC0L_022S42_SJ2698218.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-31-32-01-121319**
**Sample Collection:**
**13-Dec-2019 09:55**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-4 |
| **Matrix:** | SOLID | **Sample Size:** | 5.51 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 13:57:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.5 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.8 | 104 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.55 | 95.5 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:27 |
| **13C8-PFOA** | | 10.0 | 9.37 | 93.7 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.35 | 87.0 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.16 | 103 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.60 | 92.1 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.91 | 98.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.97 | 79.5 | 8:57 |
| **13C3-PFBS** | | 10.0 | 8.99 | 89.9 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.45 | 94.5 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.23 | 92.3 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.8 | 129 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.9 | 139 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 28.0 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.39 | 93.9 | 8:48 |
| **D3-N-MeFOSA** | | 10.0 | 5.22 | 52.2 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.67 | 46.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 21.2 | 106 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 17.6 | 88.0 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 71.5 | 71.5 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 69.9 | 69.9 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.5 | 114 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-4_Form2_FC0L_022S42_SJ2698218.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-37-38-01-121319**
**Sample Collection:**
**13-Dec-2019 10:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-5 |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:10:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.293 (L) | |
| **PFPeA** | U | | 0.146 (L) | |
| **PFHxA** | U | | 0.0732 (L) | |
| **PFHpA** | U | | 0.0732 (L) | |
| **PFOA** | U | | 0.0732 (L) | |
| **PFNA** | U | | 0.0732 (L) | |
| **PFDA** | U | | 0.0732 (L) | |
| **PFUnA** | U | | 0.0732 (L) | |
| **PFDoA** | U | | 0.0732 (L) | |
| **PFTrDA** | U | | 0.0732 (L) | |
| **PFTeDA** | U | | 0.0732 (L) | |
| **PFBS** | U | | 0.0732 (L) | |
| **PFPeS** | U | | 0.0732 (L) | |
| **PFHxS** | U | | 0.0732 (L) | |
| **PFHpS** | U | | 0.0732 (L) | |
| **PFOS** | | 0.201 | 0.0732 (L) | |
| **PFNS** | U | | 0.0732 (L) | |
| **PFDS** | U | | 0.0732 (L) | |
| **PFDoS** | U | | 0.0732 (L) | |
| **4:2 FTS** | U | | 0.293 (L) | |
| **6:2 FTS** | U | | 0.263 (L) | |
| **8:2 FTS** | U | | 0.293 (L) | |
| **PFOSA** | U | | 0.0732 (L) | |
| **N-MeFOSA** | U | | 0.0842 (L) | |
| **N-EtFOSA** | U | | 0.183 (L) | |
| **MeFOSAA** | U | | 0.0732 (L) | |
| **EtFOSAA** | U | | 0.0732 (L) | |
| **N-MeFOSE** | U | | 0.732 (L) | |
| **N-EtFOSE** | U | | 0.549 (L) | |
| **HFPO-DA** | U | | 0.293 (L) | |
| **ADONA** | U | | 0.293 (L) | |
| **9Cl-PF3ONS** | U | | 0.293 (L) | |
| **11Cl-PF3OUdS** | U | | 0.293 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-5_Form1A_FC0L_022S43_SJ2698219.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-37-38-01-121319**
**Sample Collection:**
**13-Dec-2019 10:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-5 |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:10:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.1 | 87.8 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 19.9 | 99.7 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.53 | 95.3 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.57 | 85.7 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.02 | 80.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.40 | 87.9 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.5 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.82 | 76.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.31 | 86.2 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.63 | 72.7 | 8:57 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 10.0 | 100 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.34 | 93.4 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.1 | 135 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 28.4 | 142 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.9 | 145 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.1 | 101 | 8:48 |
| **D3-N-MeFOSA** | V | 10.0 | 4.85 | 48.5 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.34 | 43.4 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 20.6 | 103 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 19.6 | 97.9 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 64.0 | 64.0 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 61.8 | 61.8 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.2 | 108 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-5_Form2_FC0L_022S43_SJ2698219.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-38-40-01-121319**
**Sample Collection:**
**13-Dec-2019 10:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.69 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:23:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.32 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.281 (L) | |
| **PFPeA** | U | | 0.140 (L) | |
| **PFHxA** | U | | 0.0702 (L) | |
| **PFHpA** | U | | 0.0702 (L) | |
| **PFOA** | U | | 0.0702 (L) | |
| **PFNA** | U | | 0.0702 (L) | |
| **PFDA** | U | | 0.0702 (L) | |
| **PFUnA** | U | | 0.0702 (L) | |
| **PFDoA** | U | | 0.0702 (L) | |
| **PFTrDA** | U | | 0.0702 (L) | |
| **PFTeDA** | U | | 0.0702 (L) | |
| **PFBS** | U | | 0.0702 (L) | |
| **PFPeS** | U | | 0.0702 (L) | |
| **PFHxS** | U | | 0.0702 (L) | |
| **PFHpS** | U | | 0.0702 (L) | |
| **PFOS** | U | | 0.0702 (L) | |
| **PFNS** | U | | 0.0702 (L) | |
| **PFDS** | U | | 0.0702 (L) | |
| **PFDoS** | U | | 0.0702 (L) | |
| **4:2 FTS** | U | | 0.281 (L) | |
| **6:2 FTS** | U | | 0.253 (L) | |
| **8:2 FTS** | U | | 0.281 (L) | |
| **PFOSA** | U | | 0.0702 (L) | |
| **N-MeFOSA** | U | | 0.0808 (L) | |
| **N-EtFOSA** | U | | 0.176 (L) | |
| **MeFOSAA** | U | | 0.0702 (L) | |
| **EtFOSAA** | U | | 0.0702 (L) | |
| **N-MeFOSE** | U | | 0.702 (L) | |
| **N-EtFOSE** | U | | 0.527 (L) | |
| **HFPO-DA** | U | | 0.281 (L) | |
| **ADONA** | U | | 0.281 (L) | |
| **9Cl-PF3ONS** | U | | 0.281 (L) | |
| **11Cl-PF3OUdS** | U | | 0.281 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-6_Form1A_FC0L_022S44_SJ2698220.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-38-40-01-121319**
**Sample Collection:**
**13-Dec-2019 10:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.69 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:23:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.32 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.1 | 90.2 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 104 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.28 | 92.8 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.87 | 88.7 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.49 | 84.9 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.7 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.09 | 102 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.14 | 103 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.43 | 88.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.49 | 69.8 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.55 | 95.5 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.27 | 92.7 | 6:24 |
| **13C8-PFOS** | | 10.0 | 8.99 | 89.9 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.0 | 135 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.0 | 135 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 29.2 | 146 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.67 | 86.7 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.51 | 45.1 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 3.82 | 38.2 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.3 | 112 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 19.8 | 99.1 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 50.1 | 50.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 50.3 | 50.3 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 47.4 | 119 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-6_Form2_FC0L_022S44_SJ2698220.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-50-52-01-121319**
**Sample Collection:**
**13-Dec-2019 10:18**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-7 |
| **Matrix:** | SOLID | **Sample Size:** | 5.08 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:36:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 17.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.315 (L) | |
| **PFPeA** | U | | 0.157 (L) | |
| **PFHxA** | U | | 0.0787 (L) | |
| **PFHpA** | U | | 0.0787 (L) | |
| **PFOA** | U | | 0.0787 (L) | |
| **PFNA** | U | | 0.0787 (L) | |
| **PFDA** | U | | 0.0787 (L) | |
| **PFUnA** | U | | 0.0787 (L) | |
| **PFDoA** | U | | 0.0787 (L) | |
| **PFTrDA** | U | | 0.0787 (L) | |
| **PFTeDA** | U | | 0.0787 (L) | |
| **PFBS** | U | | 0.0787 (L) | |
| **PFPeS** | U | | 0.0787 (L) | |
| **PFHxS** | U | | 0.0787 (L) | |
| **PFHpS** | U | | 0.0787 (L) | |
| **PFOS** | U | | 0.0787 (L) | |
| **PFNS** | U | | 0.0787 (L) | |
| **PFDS** | U | | 0.0787 (L) | |
| **PFDoS** | U | | 0.0787 (L) | |
| **4:2 FTS** | U | | 0.315 (L) | |
| **6:2 FTS** | U | | 0.283 (L) | |
| **8:2 FTS** | U | | 0.315 (L) | |
| **PFOSA** | U | | 0.0787 (L) | |
| **N-MeFOSA** | U | | 0.0905 (L) | |
| **N-EtFOSA** | U | | 0.197 (L) | |
| **MeFOSAA** | U | | 0.0787 (L) | |
| **EtFOSAA** | U | | 0.0787 (L) | |
| **N-MeFOSE** | U | | 0.787 (L) | |
| **N-EtFOSE** | U | | 0.590 (L) | |
| **HFPO-DA** | U | | 0.315 (L) | |
| **ADONA** | U | | 0.315 (L) | |
| **9Cl-PF3ONS** | U | | 0.315 (L) | |
| **11Cl-PF3OUdS** | U | | 0.315 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-7_Form1A_FC0L_022S45_SJ2698221.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-50-52-01-121319**
**Sample Collection:**
**13-Dec-2019 10:18**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-7 |
| **Matrix:** | SOLID | **Sample Size:** | 5.08 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:36:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 17.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.4 | 90.9 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 104 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.62 | 96.2 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.24 | 92.4 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.76 | 87.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.40 | 88.0 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.30 | 106 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.49 | 110 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.95 | 98.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.91 | 78.2 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.59 | 95.9 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.13 | 91.3 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.14 | 91.4 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.9 | 130 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.7 | 133 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 27.8 | 139 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.3 | 103 | 8:49 |
| **D3-N-MeFOSA** | | 10.0 | 6.97 | 69.7 | 10:07 |
| **D5-N-EtFOSA** | | 10.0 | 6.36 | 63.6 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 100 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.8 | 104 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 77.4 | 77.4 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 76.9 | 76.9 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.8 | 114 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-7_Form2_FC0L_022S45_SJ2698221.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-68-70-01-121319**
**Sample Collection:**
**13-Dec-2019 10:21**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-8 |
| **Matrix:** | SOLID | **Sample Size:** | 5.43 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:49:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.295 (L) | |
| **PFPeA** | U | | 0.147 (L) | |
| **PFHxA** | U | | 0.0737 (L) | |
| **PFHpA** | U | | 0.0737 (L) | |
| **PFOA** | U | | 0.0737 (L) | |
| **PFNA** | U | | 0.0737 (L) | |
| **PFDA** | U | | 0.0737 (L) | |
| **PFUnA** | U | | 0.0737 (L) | |
| **PFDoA** | U | | 0.0737 (L) | |
| **PFTrDA** | U | | 0.0737 (L) | |
| **PFTeDA** | U | | 0.0737 (L) | |
| **PFBS** | U | | 0.0737 (L) | |
| **PFPeS** | U | | 0.0737 (L) | |
| **PFHxS** | U | | 0.0737 (L) | |
| **PFHpS** | U | | 0.0737 (L) | |
| **PFOS** | J | 0.076 | 0.0737 (L) | |
| **PFNS** | U | | 0.0737 (L) | |
| **PFDS** | U | | 0.0737 (L) | |
| **PFDoS** | U | | 0.0737 (L) | |
| **4:2 FTS** | U | | 0.295 (L) | |
| **6:2 FTS** | U | | 0.265 (L) | |
| **8:2 FTS** | U | | 0.295 (L) | |
| **PFOSA** | U | | 0.0737 (L) | |
| **N-MeFOSA** | U | | 0.0847 (L) | |
| **N-EtFOSA** | U | | 0.184 (L) | |
| **MeFOSAA** | U | | 0.0737 (L) | |
| **EtFOSAA** | U | | 0.0737 (L) | |
| **N-MeFOSE** | U | | 0.737 (L) | |
| **N-EtFOSE** | U | | 0.553 (L) | |
| **HFPO-DA** | U | | 0.295 (L) | |
| **ADONA** | U | | 0.295 (L) | |
| **9Cl-PF3ONS** | U | | 0.295 (L) | |
| **11Cl-PF3OUdS** | U | | 0.295 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-8_Form1A_FC0L_022S46_SJ2698222.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-68-70-01-121319**
**Sample Collection:**
**13-Dec-2019 10:21**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-8 |
| **Matrix:** | SOLID | **Sample Size:** | 5.43 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 14:49:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.8 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 21.3 | 107 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.53 | 95.3 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.85 | 88.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.94 | 89.4 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.42 | 88.4 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.17 | 103 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.95 | 99.0 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.90 | 98.0 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.95 | 78.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.46 | 94.6 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.38 | 93.8 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.70 | 97.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.7 | 129 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.2 | 136 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 27.9 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.13 | 91.3 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.51 | 45.1 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.35 | 43.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 24.1 | 121 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 22.5 | 113 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 60.7 | 60.7 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 63.9 | 63.9 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 47.8 | 119 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-8_Form2_FC0L_022S46_SJ2698222.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-01-121319**
**Sample Collection:**
**13-Dec-2019 10:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-9 |
| **Matrix:** | SOLID | **Sample Size:** | 5.45 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:02:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 13.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.294 (L) | |
| **PFPeA** | U | | 0.147 (L) | |
| **PFHxA** | U | | 0.0734 (L) | |
| **PFHpA** | U | | 0.0734 (L) | |
| **PFOA** | U | | 0.0734 (L) | |
| **PFNA** | U | | 0.0734 (L) | |
| **PFDA** | U | | 0.0734 (L) | |
| **PFUnA** | U | | 0.0734 (L) | |
| **PFDoA** | U | | 0.0734 (L) | |
| **PFTrDA** | U | | 0.0734 (L) | |
| **PFTeDA** | U | | 0.0734 (L) | |
| **PFBS** | U | | 0.0734 (L) | |
| **PFPeS** | U | | 0.0734 (L) | |
| **PFHxS** | U | | 0.0734 (L) | |
| **PFHpS** | U | | 0.0734 (L) | |
| **PFOS** | J | 0.089 | 0.0734 (L) | |
| **PFNS** | U | | 0.0734 (L) | |
| **PFDS** | U | | 0.0734 (L) | |
| **PFDoS** | U | | 0.0734 (L) | |
| **4:2 FTS** | U | | 0.294 (L) | |
| **6:2 FTS** | U | | 0.264 (L) | |
| **8:2 FTS** | U | | 0.294 (L) | |
| **PFOSA** | U | | 0.0734 (L) | |
| **N-MeFOSA** | U | | 0.0844 (L) | |
| **N-EtFOSA** | U | | 0.184 (L) | |
| **MeFOSAA** | U | | 0.0734 (L) | |
| **EtFOSAA** | U | | 0.0734 (L) | |
| **N-MeFOSE** | U | | 0.734 (L) | |
| **N-EtFOSE** | U | | 0.551 (L) | |
| **HFPO-DA** | U | | 0.294 (L) | |
| **ADONA** | U | | 0.294 (L) | |
| **9Cl-PF3ONS** | U | | 0.294 (L) | |
| **11Cl-PF3OUdS** | U | | 0.294 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-9_Form1A_FC0L_022S47_SJ2698223.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-01-121319**
**Sample Collection:**
**13-Dec-2019 10:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-9 |
| **Matrix:** | SOLID | **Sample Size:** | 5.45 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:02:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 13.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.9 | 89.7 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.74 | 97.4 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.70 | 87.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.86 | 88.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.66 | 93.3 | 7:08 |
| **13C6-PFDA** | | 5.00 | 3.92 | 78.3 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.37 | 87.5 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.45 | 88.9 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.51 | 70.1 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.80 | 98.0 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.36 | 93.6 | 6:24 |
| **13C8-PFOS** | | 10.0 | 11.7 | 117 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.9 | 139 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 26.9 | 134 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 27.9 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 11.3 | 113 | 8:49 |
| **D3-N-MeFOSA** | | 10.0 | 5.27 | 52.7 | 10:07 |
| **D5-N-EtFOSA** | | 10.0 | 5.06 | 50.6 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 28.7 | 143 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 29.2 | 146 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 69.2 | 69.2 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 70.8 | 70.8 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.0 | 112 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFC_FC_LC_PFAS_L32482-9_Form2_FC0L_022S47_SJ2698223.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-02-121319**
**Sample Collection:**
**13-Dec-2019 10:37**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-10 |
| **Matrix:** | SOLID | **Sample Size:** | 5.41 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:14:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.296 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0739 (L) | |
| **PFHpA** | U | | 0.0739 (L) | |
| **PFOA** | U | | 0.0739 (L) | |
| **PFNA** | U | | 0.0739 (L) | |
| **PFDA** | U | | 0.0739 (L) | |
| **PFUnA** | U | | 0.0739 (L) | |
| **PFDoA** | U | | 0.0739 (L) | |
| **PFTrDA** | U | | 0.0739 (L) | |
| **PFTeDA** | U | | 0.0739 (L) | |
| **PFBS** | U | | 0.0739 (L) | |
| **PFPeS** | U | | 0.0739 (L) | |
| **PFHxS** | U | | 0.0739 (L) | |
| **PFHpS** | U | | 0.0739 (L) | |
| **PFOS** | J | 0.093 | 0.0739 (L) | |
| **PFNS** | U | | 0.0739 (L) | |
| **PFDS** | U | | 0.0739 (L) | |
| **PFDoS** | U | | 0.0739 (L) | |
| **4:2 FTS** | U | | 0.296 (L) | |
| **6:2 FTS** | U | | 0.266 (L) | |
| **8:2 FTS** | U | | 0.296 (L) | |
| **PFOSA** | U | | 0.0739 (L) | |
| **N-MeFOSA** | U | | 0.0850 (L) | |
| **N-EtFOSA** | U | | 0.185 (L) | |
| **MeFOSAA** | U | | 0.0739 (L) | |
| **EtFOSAA** | U | | 0.0739 (L) | |
| **N-MeFOSE** | U | | 0.739 (L) | |
| **N-EtFOSE** | U | | 0.554 (L) | |
| **HFPO-DA** | U | | 0.296 (L) | |
| **ADONA** | U | | 0.296 (L) | |
| **9Cl-PF3ONS** | U | | 0.296 (L) | |
| **11Cl-PF3OUdS** | U | | 0.296 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-10_Form1A_FC0L_022S48_SJ2698224.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-02-121319**
**Sample Collection:**
**13-Dec-2019 10:37**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-10 |
| **Matrix:** | SOLID | **Sample Size:** | 5.41 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:14:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.4 | 91.0 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.61 | 96.1 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.11 | 91.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.19 | 91.9 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.60 | 92.0 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.81 | 96.3 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.3 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.47 | 89.3 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.53 | 70.6 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.32 | 93.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.77 | 97.7 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.76 | 97.6 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 28.3 | 141 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.5 | 138 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 30.1 | 151 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.59 | 85.9 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 3.84 | 38.4 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 3.67 | 36.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.9 | 114 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.8 | 109 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 51.5 | 51.5 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 51.3 | 51.3 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 44.5 | 111 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-10_Form2_FC0L_022S48_SJ2698224.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319**
**Sample Collection:**
**13-Dec-2019 10:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-11 (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:28:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.290 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0724 (L) | |
| **PFHpA** | U | | 0.0724 (L) | |
| **PFOA** | U | | 0.0724 (L) | |
| **PFNA** | U | | 0.0724 (L) | |
| **PFDA** | U | | 0.0724 (L) | |
| **PFUnA** | U | | 0.0724 (L) | |
| **PFDoA** | U | | 0.0724 (L) | |
| **PFTrDA** | U | | 0.0724 (L) | |
| **PFTeDA** | U | | 0.0724 (L) | |
| **PFBS** | U | | 0.0724 (L) | |
| **PFPeS** | U | | 0.0724 (L) | |
| **PFHxS** | U | | 0.0724 (L) | |
| **PFHpS** | U | | 0.0724 (L) | |
| **PFOS** | U | | 0.0724 (L) | |
| **PFNS** | U | | 0.0724 (L) | |
| **PFDS** | U | | 0.0724 (L) | |
| **PFDoS** | U | | 0.0724 (L) | |
| **4:2 FTS** | U | | 0.290 (L) | |
| **6:2 FTS** | U | | 0.261 (L) | |
| **8:2 FTS** | U | | 0.290 (L) | |
| **PFOSA** | U | | 0.0724 (L) | |
| **N-MeFOSA** | U | | 0.0833 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0724 (L) | |
| **EtFOSAA** | U | | 0.0724 (L) | |
| **N-MeFOSE** | U | | 0.724 (L) | |
| **N-EtFOSE** | U | | 0.543 (L) | |
| **HFPO-DA** | U | | 0.290 (L) | |
| **ADONA** | U | | 0.290 (L) | |
| **9Cl-PF3ONS** | U | | 0.290 (L) | |
| **11Cl-PF3OUdS** | U | | 0.290 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-11_Form1A_FC0L_022S49_SJ2698225.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319**
**Sample Collection:**
**13-Dec-2019 10:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-11 (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:28:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.3 | 88.3 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 8.77 | 87.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.75 | 87.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.36 | 83.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.36 | 87.2 | 7:08 |
| **13C6-PFDA** | | 5.00 | 5.01 | 100 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.74 | 94.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.48 | 89.5 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.67 | 73.5 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.44 | 94.4 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.38 | 93.8 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.20 | 92.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.3 | 127 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 25.8 | 129 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 29.2 | 146 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.81 | 88.1 | 8:50 |
| **D3-N-MeFOSA** | V | 10.0 | 4.41 | 44.1 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 4.23 | 42.3 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 17.8 | 89.0 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.5 | 108 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 57.9 | 57.9 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 56.1 | 56.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 42.9 | 107 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-11_Form2_FC0L_022S49_SJ2698225.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-60-62-01-121319**
**Sample Collection:**
**13-Dec-2019 10:19**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-12 |
| **Matrix:** | SOLID | **Sample Size:** | 5.42 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:41:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.295 (L) | |
| **PFPeA** | U | | 0.148 (L) | |
| **PFHxA** | U | | 0.0738 (L) | |
| **PFHpA** | U | | 0.0738 (L) | |
| **PFOA** | U | | 0.0738 (L) | |
| **PFNA** | U | | 0.0738 (L) | |
| **PFDA** | U | | 0.0738 (L) | |
| **PFUnA** | U | | 0.0738 (L) | |
| **PFDoA** | U | | 0.0738 (L) | |
| **PFTrDA** | U | | 0.0738 (L) | |
| **PFTeDA** | U | | 0.0738 (L) | |
| **PFBS** | U | | 0.0738 (L) | |
| **PFPeS** | U | | 0.0738 (L) | |
| **PFHxS** | U | | 0.0738 (L) | |
| **PFHpS** | U | | 0.0738 (L) | |
| **PFOS** | U | | 0.0738 (L) | |
| **PFNS** | U | | 0.0738 (L) | |
| **PFDS** | U | | 0.0738 (L) | |
| **PFDoS** | U | | 0.0738 (L) | |
| **4:2 FTS** | U | | 0.295 (L) | |
| **6:2 FTS** | U | | 0.266 (L) | |
| **8:2 FTS** | U | | 0.295 (L) | |
| **PFOSA** | U | | 0.0738 (L) | |
| **N-MeFOSA** | U | | 0.0848 (L) | |
| **N-EtFOSA** | U | | 0.184 (L) | |
| **MeFOSAA** | U | | 0.0738 (L) | |
| **EtFOSAA** | U | | 0.0738 (L) | |
| **N-MeFOSE** | U | | 0.738 (L) | |
| **N-EtFOSE** | U | | 0.553 (L) | |
| **HFPO-DA** | U | | 0.295 (L) | |
| **ADONA** | U | | 0.295 (L) | |
| **9Cl-PF3ONS** | U | | 0.295 (L) | |
| **11Cl-PF3OUdS** | U | | 0.295 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-12_Form1A_FC0L_022S50_SJ2698226.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-60-62-01-121319**
**Sample Collection:**
**13-Dec-2019 10:19**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-12 |
| **Matrix:** | SOLID | **Sample Size:** | 5.42 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:41:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.1 | 90.4 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 21.7 | 108 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.86 | 98.6 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.46 | 84.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.22 | 82.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.24 | 84.7 | 7:09 |
| **13C6-PFDA** | | 5.00 | 4.50 | 90.0 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.89 | 77.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.67 | 93.3 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.50 | 70.0 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.80 | 98.0 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.77 | 97.7 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.10 | 91.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.6 | 138 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.3 | 136 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 30.1 | 150 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.93 | 89.3 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.89 | 48.9 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 4.35 | 43.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.3 | 116 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.1 | 101 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 54.0 | 54.0 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 54.0 | 54.0 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.3 | 113 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-12_Form2_FC0L_022S50_SJ2698226.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-80-81-01-121319**
**Sample Collection:**
**13-Dec-2019 11:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-13 |
| **Matrix:** | SOLID | **Sample Size:** | 5.52 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:55:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.290 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0724 (L) | |
| **PFHpA** | U | | 0.0724 (L) | |
| **PFOA** | U | | 0.0724 (L) | |
| **PFNA** | U | | 0.0724 (L) | |
| **PFDA** | U | | 0.0724 (L) | |
| **PFUnA** | U | | 0.0724 (L) | |
| **PFDoA** | U | | 0.0724 (L) | |
| **PFTrDA** | U | | 0.0724 (L) | |
| **PFTeDA** | U | | 0.0724 (L) | |
| **PFBS** | U | | 0.0724 (L) | |
| **PFPeS** | U | | 0.0724 (L) | |
| **PFHxS** | U | | 0.0724 (L) | |
| **PFHpS** | U | | 0.0724 (L) | |
| **PFOS** | J | 0.134 | 0.0724 (L) | |
| **PFNS** | U | | 0.0724 (L) | |
| **PFDS** | U | | 0.0724 (L) | |
| **PFDoS** | U | | 0.0724 (L) | |
| **4:2 FTS** | U | | 0.290 (L) | |
| **6:2 FTS** | J | 1.10 | 0.261 (L) | 5:58 |
| **8:2 FTS** | U | | 0.290 (L) | |
| **PFOSA** | U | | 0.0724 (L) | |
| **N-MeFOSA** | U | | 0.0833 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0724 (L) | |
| **EtFOSAA** | U | | 0.0724 (L) | |
| **N-MeFOSE** | U | | 0.724 (L) | |
| **N-EtFOSE** | U | | 0.543 (L) | |
| **HFPO-DA** | U | | 0.290 (L) | |
| **ADONA** | U | | 0.290 (L) | |
| **9Cl-PF3ONS** | U | | 0.290 (L) | |
| **11Cl-PF3OUdS** | U | | 0.290 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-13_Form1A_FC0L_022S51_SJ2698227.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-80-81-01-121319**
**Sample Collection:**
**13-Dec-2019 11:15**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-13 |
| **Matrix:** | SOLID | **Sample Size:** | 5.52 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 15:55:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.03 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.9 | 87.2 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.24 | 92.4 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.23 | 82.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.36 | 83.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.6 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.50 | 90.1 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.93 | 119 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 5.73 | 115 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.03 | 80.7 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.88 | 98.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.54 | 95.4 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.18 | 91.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 26.9 | 134 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.4 | 137 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 29.6 | 148 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.44 | 84.4 | 8:49 |
| **D3-N-MeFOSA** | V | 10.0 | 4.77 | 47.7 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 4.17 | 41.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 21.5 | 107 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.3 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 57.8 | 57.8 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 59.8 | 59.8 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 44.2 | 110 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-13_Form2_FC0L_022S51_SJ2698227.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-85-86-01-121319**
**Sample Collection:**
**13-Dec-2019 11:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32482-14 |
| **Matrix:** | SOLID | **Sample Size:** | 5.30 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:08:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 11.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.302 (L) | |
| **PFPeA** | U | | 0.151 (L) | |
| **PFHxA** | U | | 0.0755 (L) | |
| **PFHpA** | U | | 0.0755 (L) | |
| **PFOA** | U | | 0.0755 (L) | |
| **PFNA** | U | | 0.0755 (L) | |
| **PFDA** | U | | 0.0755 (L) | |
| **PFUnA** | U | | 0.0755 (L) | |
| **PFDoA** | U | | 0.0755 (L) | |
| **PFTrDA** | U | | 0.0755 (L) | |
| **PFTeDA** | U | | 0.0755 (L) | |
| **PFBS** | U | | 0.0755 (L) | |
| **PFPeS** | U | | 0.0755 (L) | |
| **PFHxS** | U | | 0.0755 (L) | |
| **PFHpS** | U | | 0.0755 (L) | |
| **PFOS** | J | 0.117 | 0.0755 (L) | |
| **PFNS** | U | | 0.0755 (L) | |
| **PFDS** | U | | 0.0755 (L) | |
| **PFDoS** | U | | 0.0755 (L) | |
| **4:2 FTS** | U | | 0.302 (L) | |
| **6:2 FTS** | U | | 0.272 (L) | |
| **8:2 FTS** | U | | 0.302 (L) | |
| **PFOSA** | U | | 0.0755 (L) | |
| **N-MeFOSA** | U | | 0.0869 (L) | |
| **N-EtFOSA** | U | | 0.189 (L) | |
| **MeFOSAA** | U | | 0.0755 (L) | |
| **EtFOSAA** | U | | 0.0755 (L) | |
| **N-MeFOSE** | U | | 0.755 (L) | |
| **N-EtFOSE** | U | | 0.566 (L) | |
| **HFPO-DA** | U | | 0.302 (L) | |
| **ADONA** | U | | 0.302 (L) | |
| **9Cl-PF3ONS** | U | | 0.302 (L) | |
| **11Cl-PF3OUdS** | U | | 0.302 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-14_Form1A_FC0L_022S52_SJ2698228.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-85-86-01-121319**
**Sample Collection:**
**13-Dec-2019 11:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-14 |
| **Matrix:** | SOLID | **Sample Size:** | 5.30 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:08:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 11.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.8 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.47 | 94.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.81 | 98.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.37 | 93.7 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.31 | 86.2 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.38 | 87.6 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.45 | 109 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.96 | 99.1 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.96 | 79.3 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.58 | 95.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 10.3 | 103 | 6:24 |
| **13C8-PFOS** | | 10.0 | 11.6 | 116 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.5 | 137 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 29.0 | 145 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 28.2 | 141 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 11.9 | 119 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 6.86 | 68.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 5.98 | 59.8 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.7 | 119 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 26.1 | 130 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 82.1 | 82.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 82.0 | 82.0 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 47.2 | 118 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-14_Form2_FC0L_022S52_SJ2698228.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-88-89-01-121319**
**Sample Collection:**
**13-Dec-2019 11:25**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-15 |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:21:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 9.16 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.289 (L) | |
| **PFPeA** | U | | 0.145 (L) | |
| **PFHxA** | U | | 0.0723 (L) | |
| **PFHpA** | U | | 0.0723 (L) | |
| **PFOA** | U | | 0.0723 (L) | |
| **PFNA** | U | | 0.0723 (L) | |
| **PFDA** | U | | 0.0723 (L) | |
| **PFUnA** | U | | 0.0723 (L) | |
| **PFDoA** | U | | 0.0723 (L) | |
| **PFTrDA** | U | | 0.0723 (L) | |
| **PFTeDA** | U | | 0.0723 (L) | |
| **PFBS** | U | | 0.0723 (L) | |
| **PFPeS** | U | | 0.0723 (L) | |
| **PFHxS** | U | | 0.0723 (L) | |
| **PFHpS** | U | | 0.0723 (L) | |
| **PFOS** | J | 0.120 | 0.0723 (L) | |
| **PFNS** | U | | 0.0723 (L) | |
| **PFDS** | U | | 0.0723 (L) | |
| **PFDoS** | U | | 0.0723 (L) | |
| **4:2 FTS** | U | | 0.289 (L) | |
| **6:2 FTS** | U | | 0.260 (L) | |
| **8:2 FTS** | U | | 0.289 (L) | |
| **PFOSA** | U | | 0.0723 (L) | |
| **N-MeFOSA** | U | | 0.0832 (L) | |
| **N-EtFOSA** | U | | 0.181 (L) | |
| **MeFOSAA** | U | | 0.0723 (L) | |
| **EtFOSAA** | U | | 0.0723 (L) | |
| **N-MeFOSE** | U | | 0.723 (L) | |
| **N-EtFOSE** | U | | 0.542 (L) | |
| **HFPO-DA** | U | | 0.289 (L) | |
| **ADONA** | U | | 0.289 (L) | |
| **9Cl-PF3ONS** | U | | 0.289 (L) | |
| **11Cl-PF3OUdS** | U | | 0.289 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-15_Form1A_FC0L_022S53_SJ2698229.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW4A-soil-88-89-01-121319**
**Sample Collection:**
**13-Dec-2019 11:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32482-15 |
| **Matrix:** | SOLID | **Sample Size:** | 5.53 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 16:21:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 9.16 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.6 | 91.5 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 100 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.23 | 92.3 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.40 | 94.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.18 | 91.8 | 6:18 |
| **13C9-PFNA** | | 5.00 | 4.51 | 90.3 | 7:09 |
| **13C6-PFDA** | | 5.00 | 4.83 | 96.7 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.88 | 97.6 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 5.05 | 101 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.92 | 78.4 | 8:57 |
| **13C3-PFBS** | | 10.0 | 10.3 | 103 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.61 | 96.1 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.38 | 93.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 29.0 | 145 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 29.3 | 146 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 31.3 | 157 | 7:28 |
| **13C8-PFOSA** | | 10.0 | 9.82 | 98.2 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.46 | 54.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 5.07 | 50.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.0 | 110 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.3 | 101 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 65.1 | 65.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 66.1 | 66.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.8 | 109 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_L32482-15_Form2_FC0L_022S53_SJ2698229.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG71043-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 5.00 g |
| **Extraction Date:** | 27-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:52:05 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_022 S: 37** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Concentration Units:** | ng/g | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.320 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0800 (L) | |
| **PFHpA** | U | | 0.0800 (L) | |
| **PFOA** | U | | 0.0800 (L) | |
| **PFNA** | U | | 0.0800 (L) | |
| **PFDA** | U | | 0.0800 (L) | |
| **PFUnA** | U | | 0.0800 (L) | |
| **PFDoA** | U | | 0.0800 (L) | |
| **PFTrDA** | U | | 0.0800 (L) | |
| **PFTeDA** | U | | 0.0800 (L) | |
| **PFBS** | U | | 0.0800 (L) | |
| **PFPeS** | U | | 0.0800 (L) | |
| **PFHxS** | U | | 0.0800 (L) | |
| **PFHpS** | U | | 0.0800 (L) | |
| **PFOS** | U | | 0.0800 (L) | |
| **PFNS** | U | | 0.0800 (L) | |
| **PFDS** | U | | 0.0800 (L) | |
| **PFDoS** | U | | 0.0800 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0800 (L) | |
| **N-MeFOSA** | U | | 0.0920 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0800 (L) | |
| **EtFOSAA** | U | | 0.0800 (L) | |
| **N-MeFOSE** | U | | 0.800 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.320 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-101_Form1A_FC0L_022S37_SJ2698214.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-101 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:52:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.6 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 21.1 | 105 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.39 | 93.9 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.75 | 87.5 | 5:27 |
| **13C8-PFOA** | | 10.0 | 9.02 | 90.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.62 | 92.4 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.75 | 95.0 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.3 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.48 | 89.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.28 | 65.6 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.99 | 99.9 | 4:50 |
| **13C3-PFHxS** | | 10.0 | 9.53 | 95.3 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.09 | 90.9 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 26.7 | 133 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.4 | 137 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.0 | 140 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 7.74 | 77.4 | 8:48 |
| **D3-N-MeFOSA** | V | 10.0 | 4.43 | 44.3 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.13 | 41.3 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.1 | 115 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 21.5 | 108 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 57.0 | 57.0 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 58.1 | 58.1 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 43.7 | 109 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-101_Form2_FC0L_022S37_SJ2698214.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-102 |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:25:55 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_022 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 37.3 | 93.4 | 2:02 |
| **PFPeA** | | 20.0 | 18.1 | 90.5 | 4:16 |
| **PFHxA** | | 10.0 | 9.29 | 92.9 | 4:53 |
| **PFHpA** | | 10.0 | 8.51 | 85.1 | 5:27 |
| **PFOA** | | 10.0 | 9.74 | 97.4 | |
| **PFNA** | | 10.0 | 9.72 | 97.2 | |
| **PFDA** | | 10.0 | 9.23 | 92.3 | 7:37 |
| **PFUnA** | | 10.0 | 9.37 | 93.7 | 7:54 |
| **PFDoA** | | 10.0 | 8.89 | 88.9 | 8:10 |
| **PFTrDA** | | 10.0 | 10.1 | 101 | 8:31 |
| **PFTeDA** | | 10.0 | 9.46 | 94.6 | 8:57 |
| **PFBS** | | 10.0 | 9.32 | 93.2 | 4:51 |
| **PFPeS** | | 10.0 | 10.2 | 102 | 5:29 |
| **PFHxS** | | 10.0 | 8.31 | 83.1 | |
| **PFHpS** | | 10.0 | 9.57 | 95.7 | 7:15 |
| **PFOS** | | 10.0 | 8.99 | 89.9 | |
| **PFNS** | | 10.0 | 7.86 | 78.6 | 7:59 |
| **PFDS** | | 10.0 | 8.94 | 89.4 | 8:17 |
| **PFDoS** | | 10.0 | 8.71 | 87.1 | 9:07 |
| **4:2 FTS** | | 40.0 | 40.4 | 101 | 4:45 |
| **6:2 FTS** | | 36.1 | 43.2 | 120 | 5:57 |
| **8:2 FTS** | | 40.0 | 36.6 | 91.6 | 7:27 |
| **PFOSA** | | 10.0 | 9.78 | 97.8 | |
| **N-MeFOSA** | | 11.5 | 10.9 | 94.5 | |
| **N-EtFOSA** | | 25.0 | 20.6 | 82.4 | |
| **MeFOSAA** | | 10.0 | 8.03 | 80.3 | |
| **EtFOSAA** | | 10.0 | 8.33 | 83.3 | |
| **N-MeFOSE** | | 100 | 99.9 | 99.9 | |
| **N-EtFOSE** | | 75.0 | 70.8 | 94.5 | |
| **HFPO-DA** | | 40.0 | 37.7 | 94.2 | 5:04 |
| **ADONA** | | 40.0 | 32.3 | 80.6 | 5:43 |
| **9Cl-PF3ONS** | | 40.0 | 25.9 | 64.6 | 7:54 |
| **11Cl-PF3OUdS** | | 40.0 | 30.7 | 76.8 | 8:33 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-102_Form8A_SJ2698210.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-102 |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 12:25:55 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_022 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.8 | 84.6 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.17 | 91.7 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 9.10 | 91.0 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.40 | 84.0 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.49 | 89.8 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.60 | 91.9 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.41 | 88.2 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.69 | 93.8 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.57 | 71.4 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.61 | 96.1 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.65 | 96.5 | 6:23 |
| **13C8-PFOS** | | 10.0 | 9.40 | 94.0 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 24.5 | 122 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 24.9 | 125 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.3 | 141 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 7.77 | 77.7 | 8:48 |
| **D3-N-MeFOSA** | V | 10.0 | 4.18 | 41.8 | 10:07 |
| **D5-N-EtFOSA** | V | 10.0 | 4.09 | 40.9 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 22.1 | 111 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.9 | 105 | 7:47 |
| **d7-NMe-FOSE** | V | 100 | 48.1 | 48.1 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 50.2 | 50.2 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.1 | 113 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-102_Form8B_SJ2698210.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS)**
**ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MS)**
**Sample Collection:**
**13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.50 g (dry) |
| **Extraction Date:** | 27-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:00:18 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_022 S: 54** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_022 S: 37 |
| | | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 7.27 | U | | 6.74 | 92.7 | 1.18 |
| **PFPeA** | | N/A | 3.63 | U | | 3.32 | 91.3 | 0.581 |
| **PFHxA** | | N/A | 1.82 | U | | 1.63 | 89.6 | 1.87 |
| **PFHpA** | | N/A | 1.82 | U | | 1.65 | 90.8 | 7.62 |
| **PFOA** | | N/A | 1.82 | U | | 1.58 | 87.0 | 4.20 |
| **PFNA** | | N/A | 1.82 | U | | 1.71 | 94.1 | 6.51 |
| **PFDA** | | N/A | 1.82 | U | | 1.57 | 86.6 | 1.22 |
| **PFUnA** | | N/A | 1.82 | U | | 1.81 | 99.4 | 21.5 |
| **PFDoA** | | N/A | 1.82 | U | | 1.68 | 92.3 | 4.76 |
| **PFTrDA** | | N/A | 1.82 | U | | 1.95 | 107 | 1.87 |
| **PFTeDA** | | N/A | 1.82 | U | | 1.80 | 98.8 | 4.74 |
| **PFBS** | | N/A | 1.82 | U | | 1.65 | 91.0 | 1.75 |
| **PFPeS** | | N/A | 1.82 | U | | 1.81 | 99.9 | 2.39 |
| **PFHxS** | | N/A | 1.82 | U | | 1.55 | 85.3 | 2.47 |
| **PFHpS** | | N/A | 1.82 | U | | 1.62 | 89.0 | 3.17 |
| **PFOS** | | N/A | 1.82 | U | | 1.72 | 94.5 | 4.69 |
| **PFNS** | | N/A | 1.82 | U | | 1.79 | 98.4 | 1.06 |
| **PFDS** | | N/A | 1.82 | U | | 1.61 | 88.7 | 3.88 |
| **PFDoS** | | N/A | 1.82 | U | | 1.51 | 83.0 | 1.49 |
| **4:2 FTS** | | N/A | 7.27 | U | | 7.34 | 101 | 3.72 |
| **6:2 FTS** | | N/A | 6.55 | U | | 7.01 | 107 | 0.284 |
| **8:2 FTS** | | N/A | 7.27 | U | | 6.58 | 90.5 | 6.65 |
| **PFOSA** | | N/A | 1.82 | U | | 1.73 | 95.3 | 6.13 |
| **N-MeFOSA** | | N/A | 2.09 | U | | 2.06 | 98.5 | 8.77 |
| **N-EtFOSA** | | N/A | 4.54 | U | | 4.00 | 88.1 | 10.5 |
| **MeFOSAA** | | N/A | 1.82 | U | | 1.64 | 90.5 | 0.131 |
| **EtFOSAA** | | N/A | 1.82 | U | | 1.76 | 96.7 | 15.9 |
| **N-MeFOSE** | | N/A | 18.2 | U | | 17.1 | 94.1 | 1.65 |
| **N-EtFOSE** | | N/A | 13.6 | U | | 13.1 | 96.3 | 0.762 |
| **HFPO-DA** | | N/A | 7.27 | U | | 7.23 | 99.5 | 6.20 |
| **ADONA** | | N/A | 7.27 | U | | 6.22 | 85.6 | 0.028 |
| **9Cl-PF3ONS** | | N/A | 7.27 | U | | 6.23 | 85.6 | 5.28 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 7.27 | U | | 5.80 | 79.8 | 1.53 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 12-Feb-2020 08:57:32; Application: XMLTransformer-1.17.17;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71043-103_L32482-11_Form8C.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MS)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.50 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:00:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 6.74 | 0.291 (L) | 2:03 |
| **PFPeA** | | 3.32 | 0.145 (L) | 4:16 |
| **PFHxA** | | 1.63 | 0.0727 (L) | 4:53 |
| **PFHpA** | | 1.65 | 0.0727 (L) | 5:28 |
| **PFOA** | | 1.58 | 0.0727 (L) | |
| **PFNA** | | 1.71 | 0.0727 (L) | |
| **PFDA** | | 1.57 | 0.0727 (L) | 7:37 |
| **PFUnA** | | 1.81 | 0.0727 (L) | 7:54 |
| **PFDoA** | | 1.68 | 0.0727 (L) | 8:11 |
| **PFTrDA** | | 1.95 | 0.0727 (L) | 8:32 |
| **PFTeDA** | | 1.80 | 0.0727 (L) | 8:57 |
| **PFBS** | | 1.65 | 0.0727 (L) | 4:51 |
| **PFPeS** | | 1.81 | 0.0727 (L) | 5:30 |
| **PFHxS** | | 1.55 | 0.0727 (L) | |
| **PFHpS** | | 1.62 | 0.0727 (L) | 7:15 |
| **PFOS** | | 1.72 | 0.0727 (L) | |
| **PFNS** | | 1.79 | 0.0727 (L) | 7:59 |
| **PFDS** | | 1.61 | 0.0727 (L) | 8:18 |
| **PFDoS** | | 1.51 | 0.0727 (L) | 9:08 |
| **4:2 FTS** | | 7.34 | 0.291 (L) | 4:45 |
| **6:2 FTS** | | 7.01 | 0.262 (L) | 5:58 |
| **8:2 FTS** | | 6.58 | 0.291 (L) | 7:27 |
| **PFOSA** | | 1.73 | 0.0727 (L) | |
| **N-MeFOSA** | | 2.06 | 0.0836 (L) | |
| **N-EtFOSA** | | 4.00 | 0.182 (L) | |
| **MeFOSAA** | | 1.64 | 0.0727 (L) | |
| **EtFOSAA** | | 1.76 | 0.0727 (L) | |
| **N-MeFOSE** | | 17.1 | 0.727 (L) | |
| **N-EtFOSE** | | 13.1 | 0.545 (L) | |
| **HFPO-DA** | | 7.23 | 0.291 (L) | 5:04 |
| **ADONA** | | 6.22 | 0.291 (L) | 5:44 |
| **9Cl-PF3ONS** | | 6.23 | 0.291 (L) | 7:55 |
| **11Cl-PF3OUdS** | | 5.80 | 0.291 (L) | 8:34 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-103_Form1A_FC0L_022S54_SJ2698230.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MS)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.50 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:00:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.4 | 2:02 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 103 | 4:16 |
| **13C5-PFHxA** | | 10.0 | 9.50 | 95.0 | 4:53 |
| **13C4-PFHpA** | | 10.0 | 8.92 | 89.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.88 | 88.8 | 6:18 |
| **13C9-PFNA** | | 5.00 | 4.56 | 91.2 | 7:09 |
| **13C6-PFDA** | | 5.00 | 4.87 | 97.4 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.29 | 65.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.56 | 91.2 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.41 | 68.1 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.82 | 98.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.56 | 95.6 | 6:24 |
| **13C8-PFOS** | | 10.0 | 9.48 | 94.8 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 25.4 | 127 | 4:45 |
| **13C2-6:2 FTS** | | 20.0 | 27.3 | 136 | 5:58 |
| **13C2-8:2 FTS** | | 20.0 | 29.8 | 149 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.09 | 80.9 | 8:50 |
| **D3-N-MeFOSA** | V | 10.0 | 4.44 | 44.4 | 10:08 |
| **D5-N-EtFOSA** | V | 10.0 | 3.97 | 39.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 23.1 | 115 | 7:39 |
| **D5-EtFOSAA** | | 20.0 | 20.5 | 102 | 7:47 |
| **d7-NMe-FOSE** | | 100 | 56.4 | 56.4 | 9:59 |
| **d9-NEt-FOSE** | | 100 | 56.7 | 56.7 | 10:17 |
| **13C3-HFPO-DA** | | 40.0 | 45.2 | 113 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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Report Filename: PFC_FC_LC_PFAS_WG71043-103_Form2_FC0L_022S54_SJ2698230.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MSD)**
**Sample Collection:**
**13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Extraction Date:** | 27-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:13:21 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_022 S: 55** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_022 S: 37 |
| | | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 7.32 | U | | 6.82 | 93.2 | 1.18 |
| **PFPeA** | | N/A | 3.66 | U | | 3.34 | 91.2 | 0.581 |
| **PFHxA** | | N/A | 1.83 | U | | 1.66 | 90.7 | 1.87 |
| **PFHpA** | | N/A | 1.83 | U | | 1.78 | 97.4 | 7.62 |
| **PFOA** | | N/A | 1.83 | U | | 1.65 | 90.1 | 4.20 |
| **PFNA** | | N/A | 1.83 | U | | 1.83 | 99.8 | 6.51 |
| **PFDA** | | N/A | 1.83 | U | | 1.59 | 87.1 | 1.22 |
| **PFUnA** | | N/A | 1.83 | U | | 2.24 | 123 | 21.5 |
| **PFDoA** | | N/A | 1.83 | U | | 1.76 | 96.2 | 4.76 |
| **PFTrDA** | | N/A | 1.83 | U | | 1.99 | 109 | 1.87 |
| **PFTeDA** | | N/A | 1.83 | U | | 1.71 | 93.6 | 4.74 |
| **PFBS** | | N/A | 1.83 | U | | 1.68 | 92.1 | 1.75 |
| **PFPeS** | | N/A | 1.83 | U | | 1.77 | 96.9 | 2.39 |
| **PFHxS** | | N/A | 1.83 | U | | 1.51 | 82.6 | 2.47 |
| **PFHpS** | | N/A | 1.83 | U | | 1.57 | 85.7 | 3.17 |
| **PFOS** | | N/A | 1.83 | U | | 1.80 | 98.4 | 4.69 |
| **PFNS** | | N/A | 1.83 | U | | 1.77 | 96.7 | 1.06 |
| **PFDS** | | N/A | 1.83 | U | | 1.68 | 91.7 | 3.88 |
| **PFDoS** | | N/A | 1.83 | U | | 1.53 | 83.7 | 1.49 |
| **4:2 FTS** | | N/A | 7.32 | U | | 7.07 | 96.7 | 3.72 |
| **6:2 FTS** | | N/A | 6.60 | U | | 6.99 | 106 | 0.284 |
| **8:2 FTS** | | N/A | 7.32 | U | | 7.03 | 96.1 | 6.65 |
| **PFOSA** | | N/A | 1.83 | U | | 1.63 | 89.1 | 6.13 |
| **N-MeFOSA** | | N/A | 2.10 | U | | 2.25 | 107 | 8.77 |
| **N-EtFOSA** | | N/A | 4.57 | U | | 4.45 | 97.2 | 10.5 |
| **MeFOSAA** | | N/A | 1.83 | U | | 1.64 | 89.8 | 0.131 |
| **EtFOSAA** | | N/A | 1.83 | U | | 1.50 | 81.9 | 15.9 |
| **N-MeFOSE** | | N/A | 18.3 | U | | 17.4 | 95.1 | 1.65 |
| **N-EtFOSE** | | N/A | 13.7 | U | | 13.2 | 96.5 | 0.762 |
| **HFPO-DA** | | N/A | 7.32 | U | | 6.80 | 92.9 | 6.20 |
| **ADONA** | | N/A | 7.32 | U | | 6.22 | 85.1 | 0.028 |
| **9Cl-PF3ONS** | | N/A | 7.32 | U | | 6.56 | 89.7 | 5.28 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 7.32 | U | | 5.89 | 80.5 | 1.53 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 12-Feb-2020 08:57:32; Application: XMLTransformer-1.17.17;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71043-104_L32482-11_Form8E.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MSD)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:13:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 6.82 | 0.293 (L) | 2:03 |
| **PFPeA** | | 3.34 | 0.146 (L) | 4:21 |
| **PFHxA** | | 1.66 | 0.0732 (L) | 4:59 |
| **PFHpA** | | 1.78 | 0.0732 (L) | 5:33 |
| **PFOA** | | 1.65 | 0.0732 (L) | |
| **PFNA** | | 1.83 | 0.0732 (L) | |
| **PFDA** | | 1.59 | 0.0732 (L) | 7:42 |
| **PFUnA** | | 2.24 | 0.0732 (L) | 7:59 |
| **PFDoA** | | 1.76 | 0.0732 (L) | 8:16 |
| **PFTrDA** | | 1.99 | 0.0732 (L) | 8:37 |
| **PFTeDA** | | 1.71 | 0.0732 (L) | 9:02 |
| **PFBS** | | 1.68 | 0.0732 (L) | 4:56 |
| **PFPeS** | | 1.77 | 0.0732 (L) | 5:35 |
| **PFHxS** | | 1.51 | 0.0732 (L) | |
| **PFHpS** | | 1.57 | 0.0732 (L) | 7:20 |
| **PFOS** | | 1.80 | 0.0732 (L) | |
| **PFNS** | | 1.77 | 0.0732 (L) | 8:05 |
| **PFDS** | | 1.68 | 0.0732 (L) | 8:23 |
| **PFDoS** | | 1.53 | 0.0732 (L) | 9:13 |
| **4:2 FTS** | | 7.07 | 0.293 (L) | 4:50 |
| **6:2 FTS** | | 6.99 | 0.263 (L) | 6:03 |
| **8:2 FTS** | | 7.03 | 0.293 (L) | 7:33 |
| **PFOSA** | | 1.63 | 0.0732 (L) | |
| **N-MeFOSA** | | 2.25 | 0.0841 (L) | |
| **N-EtFOSA** | | 4.45 | 0.183 (L) | |
| **MeFOSAA** | | 1.64 | 0.0732 (L) | |
| **EtFOSAA** | | 1.50 | 0.0732 (L) | |
| **N-MeFOSE** | | 17.4 | 0.732 (L) | |
| **N-EtFOSE** | | 13.2 | 0.549 (L) | |
| **HFPO-DA** | | 6.80 | 0.293 (L) | 5:09 |
| **ADONA** | | 6.22 | 0.293 (L) | 5:49 |
| **9Cl-PF3ONS** | | 6.56 | 0.293 (L) | 8:00 |
| **11Cl-PF3OUdS** | | 5.89 | 0.293 (L) | 8:39 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-104_Form1A_FC0L_022S55_SJ2698231.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW4A-soil-74-75-03-121319 (MSD)**
**Sample Collection: 13-Dec-2019 10:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71043-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.47 g (dry) |
| **Sample Receipt Date:** | 18-Dec-2019 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 27-Jan-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jan-2020 **Time:** 17:13:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_022 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_022 S: 37 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_022 S: 32 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 10.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.5 | 91.3 | 2:03 |
| **13C5-PFPeA** | | 20.0 | 21.5 | 107 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.40 | 94.0 | 4:59 |
| **13C4-PFHpA** | | 10.0 | 7.85 | 78.5 | 5:33 |
| **13C8-PFOA** | | 10.0 | 8.55 | 85.5 | 6:23 |
| **13C9-PFNA** | | 5.00 | 4.51 | 90.2 | 7:14 |
| **13C6-PFDA** | | 5.00 | 5.03 | 101 | 7:42 |
| **13C7-PFUnA** | | 5.00 | 3.79 | 75.7 | 7:59 |
| **13C2-PFDoA** | | 5.00 | 4.71 | 94.2 | 8:16 |
| **13C2-PFTeDA** | | 5.00 | 3.58 | 71.6 | 9:02 |
| **13C3-PFBS** | | 10.0 | 9.92 | 99.2 | 4:56 |
| **13C3-PFHxS** | | 10.0 | 9.55 | 95.5 | 6:29 |
| **13C8-PFOS** | | 10.0 | 9.84 | 98.4 | 7:47 |
| **13C2-4:2 FTS** | | 20.0 | 25.6 | 128 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 27.4 | 137 | 6:03 |
| **13C2-8:2 FTS** | | 20.0 | 25.6 | 128 | 7:33 |
| **13C8-PFOSA** | | 10.0 | 9.16 | 91.6 | 8:55 |
| **D3-N-MeFOSA** | | 10.0 | 5.02 | 50.2 | 10:13 |
| **D5-N-EtFOSA** | V | 10.0 | 4.48 | 44.8 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 23.2 | 116 | 7:44 |
| **D5-EtFOSAA** | | 20.0 | 22.5 | 113 | 7:52 |
| **d7-NMe-FOSE** | | 100 | 58.0 | 58.0 | 10:04 |
| **d9-NEt-FOSE** | | 100 | 59.4 | 59.4 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 45.4 | 114 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17;
Report Filename: PFC_FC_LC_PFAS_WG71043-104_Form2_FC0L_022S55_SJ2698231.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| COMPOUND | LAB FLAG [1] | PERCENT RECOVERY (%) CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | CS7 | CS8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **PFBA** | | | 106 | 106 | 101 | 99.3 | 93.4 | 95.7 | 99.1 | |
| **PFPeA** | | | 103 | 104 | 103 | 100 | 93.3 | 97.4 | 99.5 | |
| **PFHxA** | | | 106 | 118 | 99.2 | 92.8 | 92.8 | 94.1 | 96.4 | |
| **PFHpA** | | | 117 | 111 | 103 | 94.5 | 88.1 | 87.9 | 97.8 | |
| **PFOA** | | | 118 | 108 | 107 | 95.9 | 90.0 | 88.9 | 92.8 | |
| **PFNA** | | | 105 | 103 | 95.1 | 103 | 99.5 | 95.7 | 98.5 | |
| **PFDA** | | | 99.1 | 98.3 | 106 | 113 | 78.6 | 107 | 99.2 | |
| **PFUnA** | | | 104 | 98.1 | 98.8 | 106 | 97.6 | 99.8 | 95.7 | |
| **PFDoA** | | | 94.3 | 98.3 | 119 | 118 | 101 | 93.7 | 75.6 | |
| **PFTrDA** | | | 118 | 102 | 104 | 104 | 87.6 | 84.7 | | |
| **PFTeDA** | | | 114 | 111 | 106 | 111 | 96.0 | 87.8 | 74.4 | |
| **PFBS** | | | 101 | 96.8 | 101 | 104 | 92.7 | 101 | 103 | |
| **PFPeS** | | | 104 | 100 | 103 | 99.0 | 96.8 | 104 | 91.5 | |
| **PFHxS** | | | 111 | 103 | 97.0 | 99.2 | 90.7 | 95.4 | 104 | |
| **PFHpS** | | | 97.9 | 97.1 | 99.0 | 98.4 | 97.0 | 110 | 101 | |
| **PFOS** | | | 93.3 | 94.7 | 105 | 90.4 | 93.8 | 109 | 115 | |
| **PFNS** | | | 97.7 | 106 | 105 | 82.0 | 99.6 | 108 | 103 | |
| **PFDS** | | | 101 | 108 | 96.6 | 105 | 85.4 | 101 | 102 | |
| **PFDoS** | | | 98.2 | 92.4 | 102 | 96.1 | 93.4 | 106 | 111 | |
| **4:2 FTS** | | | 113 | 104 | 107 | 108 | 95.7 | 97.0 | 76.7 | |
| **6:2 FTS** | | | 114 | 96.8 | 113 | 114 | 101 | 88.6 | 72.2 | |
| **8:2 FTS** | | | 99.5 | 114 | 111 | 104 | 89.0 | 82.6 | | |
| **PFOSA** | | | 103 | 100 | 98.9 | 100 | 98.7 | 97.3 | 102 | |
| **N-MeFOSA** | | | 97.5 | 106 | 115 | 108 | 100 | 95.6 | 78.7 | |
| **N-EtFOSA** | | | 89.3 | 105 | 104 | 101 | 94.6 | 102 | 104 | |
| **MeFOSAA** | | | 107 | 96.9 | 96.9 | 113 | 80.2 | 118 | 87.7 | |
| **EtFOSAA** | | | 123 | 93.1 | 114 | 83.4 | 83.0 | 95.3 | 109 | |
| **N-MeFOSE** | | | 102 | 104 | 105 | 102 | 98.7 | 97.4 | 90.4 | |
| **N-EtFOSE** | | | 101 | 103 | 104 | 106 | 97.9 | 95.8 | 91.6 | |
| **HFPO-DA** | | | 101 | 112 | 105 | 105 | 99.8 | 95.4 | 82.2 | |
| **ADONA** | | | 92.0 | 103 | 103 | 103 | 90.3 | 107 | 102 | |
| **9Cl-PF3ONS** | | | 92.9 | 112 | 106 | 113 | 98.4 | 92.3 | 85.8 | |
| **11Cl-PF3OUdS** | | | 95.6 | 106 | 103 | 99.8 | 90.6 | 97.3 | 108 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_14-Jan-2020_FC0L__Form3A_GS86158.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.1 | 103 | 101 | 99.0 | 100 | 99.5 | 98.9 | |
| **13C5-PFPeA** | | | 98.5 | 106 | 111 | 105 | 108 | 92.0 | 79.5 | |
| **13C5-PFHxA** | | | 100 | 99.0 | 101 | 107 | 103 | 96.7 | 93.8 | |
| **13C4-PFHpA** | | | 94.1 | 106 | 98.7 | 98.4 | 106 | 105 | 92.1 | |
| **13C8-PFOA** | | | 93.2 | 105 | 97.8 | 98.7 | 101 | 106 | 98.5 | |
| **13C9-PFNA** | | | 96.5 | 104 | 111 | 96.6 | 91.2 | 97.2 | 104 | |
| **13C6-PFDA** | | | 99.7 | 101 | 85.0 | 94.1 | 109 | 120 | 91.7 | |
| **13C7-PFUnA** | | | 105 | 119 | 112 | 101 | 85.2 | 77.9 | | |
| **13C2-PFDoA** | | | 89.7 | 100 | 90.1 | 92.9 | 97.0 | 119 | 111 | |
| **13C2-PFTeDA** | | | 88.7 | 88.7 | 91.6 | 83.5 | 89.1 | 129 | 130 | |
| **13C3-PFBS** | | | 104 | 110 | 102 | 105 | 107 | 91.2 | 81.4 | |
| **13C3-PFHxS** | | | 99.6 | 105 | 97.7 | 98.1 | 103 | 97.5 | 99.1 | |
| **13C8-PFOS** | | | 103 | 98.6 | 115 | 97.5 | 94.6 | 96.9 | 94.5 | |
| **13C2-4:2 FTS** | | | 109 | 117 | 108 | 106 | 94.0 | 78.0 | 87.6 | |
| **13C2-6:2 FTS** | | | 99.6 | 107 | 98.8 | 97.3 | 96.7 | 92.8 | 108 | |
| **13C2-8:2 FTS** | | | 93.1 | 96.9 | 90.3 | 93.7 | 101 | 92.4 | 132 | |
| **13C8-PFOSA** | | | 93.6 | 95.5 | 105 | 86.5 | 82.5 | 104 | 132 | |
| **D3-N-MeFOSA** | | | 94.7 | 95.8 | 112 | 93.7 | 88.7 | 115 | | |
| **D5-N-EtFOSA** | | | 91.3 | 95.0 | 113 | 93.0 | 88.0 | 105 | 116 | |
| **D3-MeFOSAA** | | | 96.3 | 92.1 | 107 | 75.2 | 102 | 88.3 | 140 | |
| **D5-EtFOSAA** | | | 91.7 | 95.7 | 112 | 98.4 | 92.1 | 110 | 99.8 | |
| **d7-NMe-FOSE** | | | 89.0 | 94.7 | 117 | 94.0 | 86.4 | 102 | 117 | |
| **d9-NEt-FOSE** | | | 90.4 | 95.2 | 115 | 92.9 | 85.3 | 102 | 119 | |
| **13C3-HFPO-DA** | | | 111 | 108 | 113 | 102 | 108 | 85.1 | 72.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 2:01 | 2:01 | 2:01 | 2:01 | 2:02 | 2:01 | 2:01 | | 2:01 |
| **PFPeA** | | | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | | 4:15 |
| **PFHxA** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFHpA** | | | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | | 5:24 |
| **PFOA** | | | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | | 6:14 |
| **PFNA** | | | 7:04 | 7:03 | 7:04 | 7:04 | 7:04 | 7:04 | 7:03 | | 7:04 |
| **PFDA** | | | 7:33 | 7:33 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **PFUnA** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | 7:52 |
| **PFDoA** | | | 8:09 | 8:08 | 8:08 | 8:09 | 8:08 | 8:08 | 8:08 | | 8:08 |
| **PFTrDA** | | | 8:30 | 8:29 | 8:30 | 8:30 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | | 8:56 |
| **PFBS** | | | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | | 4:49 |
| **PFPeS** | | | 5:26 | 5:26 | 5:26 | 5:27 | 5:26 | 5:26 | 5:26 | | 5:26 |
| **PFHxS** | | | 6:21 | 6:20 | 6:21 | 6:21 | 6:21 | 6:20 | 6:20 | | 6:21 |
| **PFHpS** | | | 7:10 | 7:10 | 7:10 | 7:11 | 7:10 | 7:11 | 7:10 | | 7:10 |
| **PFOS** | | | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | | 7:39 |
| **PFNS** | | | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | | 7:57 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | | 9:07 |
| **4:2 FTS** | | | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | | 4:43 |
| **6:2 FTS** | | | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | | 5:54 |
| **8:2 FTS** | | | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | | 8:46 |
| **N-MeFOSA** | | | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | | 10:06 |
| **N-EtFOSA** | | | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | | 10:24 |
| **MeFOSAA** | | | 7:36 | 7:36 | 7:36 | 7:37 | 7:36 | 7:36 | 7:36 | | 7:36 |
| **EtFOSAA** | | | 7:45 | 7:44 | 7:44 | 7:45 | 7:44 | 7:44 | 7:44 | | 7:44 |
| **N-MeFOSE** | | | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | | 9:59 |
| **N-EtFOSE** | | | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | | 10:17 |
| **HFPO-DA** | | | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | | 5:01 |
| **ADONA** | | | 5:40 | 5:39 | 5:40 | 5:40 | 5:39 | 5:40 | 5:39 | | 5:40 |
| **9Cl-PF3ONS** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | 7:52 |
| **11Cl-PF3OUdS** | | | 8:32 | 8:32 | 8:32 | 8:32 | 8:32 | 8:32 | 8:31 | | 8:32 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
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Report Filename: PFOA_FC_LC_14-Jan-2020_FC0L__Form3C_GS86158.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 2:01 | 2:01 | 2:01 | 2:01 | 2:01 | 2:00 | 2:00 | | 2:01 |
| **13C5-PFPeA** | | | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | | 4:15 |
| **13C5-PFHxA** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C4-PFHpA** | | | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | | 5:24 |
| **13C8-PFOA** | | | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:13 | | 6:14 |
| **13C9-PFNA** | | | 7:03 | 7:03 | 7:03 | 7:04 | 7:03 | 7:04 | 7:03 | | 7:03 |
| **13C6-PFDA** | | | 7:33 | 7:33 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | | 7:52 |
| **13C2-PFDoA** | | | 8:09 | 8:08 | 8:08 | 8:09 | 8:08 | 8:08 | 8:08 | | 8:08 |
| **13C2-PFTeDA** | | | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | | 8:56 |
| **13C3-PFBS** | | | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | | 4:49 |
| **13C3-PFHxS** | | | 6:20 | 6:20 | 6:20 | 6:21 | 6:20 | 6:20 | 6:20 | | 6:20 |
| **13C8-PFOS** | | | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | | 7:39 |
| **13C2-4:2 FTS** | | | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | | 4:43 |
| **13C2-6:2 FTS** | | | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | | 5:54 |
| **13C2-8:2 FTS** | | | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | | 8:46 |
| **D3-N-MeFOSA** | | | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | | | 10:06 |
| **D5-N-EtFOSA** | | | 10:23 | 10:24 | 10:24 | 10:24 | 10:23 | 10:24 | 10:23 | | 10:24 |
| **D3-MeFOSAA** | | | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | | 7:36 |
| **D5-EtFOSAA** | | | 7:44 | 7:44 | 7:44 | 7:45 | 7:44 | 7:44 | 7:44 | | 7:44 |
| **d7-NMe-FOSE** | | | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | | 9:58 |
| **d9-NEt-FOSE** | | | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | | 10:16 |
| **13C3-HFPO-DA** | | | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | | 5:01 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 32 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 11:28:35 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:02 | 40.0 | 40.7 | 102 |
| **PFPeA** | | 4:16 | 20.0 | 19.9 | 99.4 |
| **PFHxA** | | 4:53 | 10.0 | 10.3 | 103 |
| **PFHpA** | | 5:28 | 10.0 | 9.53 | 95.3 |
| **PFOA** | | 6:18 | 10.0 | 9.94 | 99.4 |
| **PFNA** | | 7:09 | 10.0 | 9.75 | 97.5 |
| **PFDA** | | 7:37 | 10.0 | 9.63 | 96.3 |
| **PFUnA** | | 7:54 | 10.0 | 10.5 | 105 |
| **PFDoA** | | 8:11 | 10.0 | 10.9 | 109 |
| **PFTrDA** | | 8:31 | 10.0 | 10.9 | 109 |
| **PFTeDA** | | 8:57 | 10.0 | 10.9 | 109 |
| **PFBS** | | 4:51 | 10.0 | 10.2 | 102 |
| **PFPeS** | | 5:29 | 10.0 | 10.9 | 109 |
| **PFHxS** | | 6:24 | 10.0 | 9.06 | 90.6 |
| **PFHpS** | | 7:15 | 10.0 | 9.74 | 97.4 |
| **PFOS** | | 7:42 | 10.0 | 10.2 | 102 |
| **PFNS** | | 7:59 | 10.0 | 7.46 | 74.6 |
| **PFDS** | | 8:18 | 10.0 | 9.16 | 91.6 |
| **PFDoS** | | 9:08 | 10.0 | 9.72 | 97.2 |
| **4:2 FTS** | | 4:45 | 40.0 | 41.1 | 103 |
| **6:2 FTS** | | 5:58 | 36.0 | 39.2 | 109 |
| **8:2 FTS** | | 7:27 | 40.0 | 38.5 | 96.3 |
| **PFOSA** | | 8:50 | 10.0 | 10.1 | 101 |
| **N-MeFOSA** | | 10:08 | 11.5 | 13.0 | 113 |
| **N-EtFOSA** | | 10:26 | 25.0 | 25.9 | 103 |
| **MeFOSAA** | | 7:39 | 10.0 | 9.55 | 95.5 |
| **EtFOSAA** | | 7:47 | 10.0 | 10.3 | 103 |
| **N-MeFOSE** | | 10:01 | 100 | 107 | 107 |
| **N-EtFOSE** | | 10:18 | 75.0 | 76.3 | 102 |
| **HFPO-DA** | | 5:04 | 40.0 | 43.0 | 108 |
| **ADONA** | | 5:43 | 40.0 | 38.9 | 97.2 |
| **9Cl-PF3ONS** | | 7:54 | 40.0 | 31.7 | 79.3 |
| **11Cl-PF3OUdS** | | 8:33 | 40.0 | 40.9 | 102 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 32 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 11:28:35 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:02 | 40.0 | 38.6 | 96.4 |
| **13C5-PFPeA** | | 4:16 | 20.0 | 21.1 | 105 |
| **13C5-PFHxA** | | 4:53 | 10.0 | 9.62 | 96.2 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 9.62 | 96.2 |
| **13C8-PFOA** | | 6:17 | 10.0 | 9.18 | 91.8 |
| **13C9-PFNA** | | 7:08 | 5.00 | 5.26 | 105 |
| **13C6-PFDA** | | 7:37 | 5.00 | 5.19 | 104 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 4.86 | 97.3 |
| **13C2-PFDoA** | | 8:11 | 5.00 | 4.99 | 99.9 |
| **13C2-PFTeDA** | | 8:57 | 5.00 | 4.35 | 86.9 |
| **13C3-PFBS** | | 4:51 | 9.18 | 9.79 | 107 |
| **13C3-PFHxS** | | 6:24 | 10.0 | 10.5 | 105 |
| **13C8-PFOS** | | 7:42 | 10.0 | 10.3 | 103 |
| **13C2-4:2 FTS** | | 4:45 | 20.0 | 28.4 | 142 |
| **13C2-6:2 FTS** | | 5:58 | 20.0 | 28.5 | 142 |
| **13C2-8:2 FTS** | | 7:27 | 20.0 | 31.1 | 156 |
| **13C8-PFOSA** | | 8:50 | 10.0 | 10.4 | 104 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 8.54 | 85.4 |
| **D5-N-EtFOSA** | | 10:25 | 10.0 | 8.50 | 85.0 |
| **D3-MeFOSAA** | | 7:39 | 20.0 | 21.9 | 110 |
| **D5-EtFOSAA** | | 7:47 | 20.0 | 19.9 | 99.3 |
| **d7-NMe-FOSE** | | 9:59 | 100 | 101 | 101 |
| **d9-NEt-FOSE** | | 10:17 | 100 | 99.6 | 99.6 |
| **13C3-HFPO-DA** | | 5:04 | 40.0 | 43.7 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFOA_FC_LC_FC0L_022S32__Form4B_SJ2698205.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 56 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 17:26:19 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:03 | 40.0 | 40.5 | 101 |
| **PFPeA** | | 4:21 | 20.0 | 20.0 | 99.9 |
| **PFHxA** | | 4:59 | 10.0 | 10.3 | 103 |
| **PFHpA** | | 5:33 | 10.0 | 10.2 | 102 |
| **PFOA** | | 6:23 | 10.0 | 9.84 | 98.4 |
| **PFNA** | | 7:14 | 10.0 | 9.94 | 99.4 |
| **PFDA** | | 7:42 | 10.0 | 9.28 | 92.8 |
| **PFUnA** | | 7:59 | 10.0 | 9.15 | 91.5 |
| **PFDoA** | | 8:16 | 10.0 | 11.5 | 115 |
| **PFTrDA** | | 8:36 | 10.0 | 11.6 | 116 |
| **PFTeDA** | | 9:02 | 10.0 | 10.6 | 106 |
| **PFBS** | | 4:56 | 10.0 | 10.2 | 102 |
| **PFPeS** | | 5:35 | 10.0 | 10.8 | 108 |
| **PFHxS** | | 6:29 | 10.0 | 9.24 | 92.4 |
| **PFHpS** | | 7:20 | 10.0 | 10.3 | 103 |
| **PFOS** | | 7:47 | 10.0 | 11.2 | 112 |
| **PFNS** | | 8:04 | 10.0 | 11.4 | 114 |
| **PFDS** | | 8:23 | 10.0 | 11.2 | 112 |
| **PFDoS** | | 9:13 | 10.0 | 10.4 | 104 |
| **4:2 FTS** | | 4:50 | 40.0 | 43.0 | 107 |
| **6:2 FTS** | | 6:03 | 36.0 | 43.2 | 120 |
| **8:2 FTS** | | 7:33 | 40.0 | 34.5 | 86.3 |
| **PFOSA** | | 8:55 | 10.0 | 10.4 | 104 |
| **N-MeFOSA** | | 10:13 | 11.5 | 12.0 | 104 |
| **N-EtFOSA** | | 10:31 | 25.0 | 24.3 | 97.3 |
| **MeFOSAA** | | 7:45 | 10.0 | 10.0 | 100 |
| **EtFOSAA** | | 7:52 | 10.0 | 9.28 | 92.8 |
| **N-MeFOSE** | | 10:06 | 100 | 111 | 111 |
| **N-EtFOSE** | | 10:23 | 75.0 | 79.3 | 106 |
| **HFPO-DA** | | 5:09 | 40.0 | 43.7 | 109 |
| **ADONA** | | 5:49 | 40.0 | 37.4 | 93.6 |
| **9Cl-PF3ONS** | | 7:59 | 40.0 | 42.8 | 107 |
| **11Cl-PF3OUdS** | | 8:38 | 40.0 | 39.4 | 98.5 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFOA_FC_LC_FC0L_022S56__Form4A_SJ2698232.html; Workgroup: WG71043; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_022 S: 56 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jan-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 17:26:19 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:02 | 40.0 | 37.5 | 93.8 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.7 | 108 |
| **13C5-PFHxA** | | 4:59 | 10.0 | 10.2 | 102 |
| **13C4-PFHpA** | | 5:33 | 10.0 | 8.81 | 88.1 |
| **13C8-PFOA** | | 6:23 | 10.0 | 9.10 | 91.0 |
| **13C9-PFNA** | | 7:14 | 5.00 | 5.01 | 100 |
| **13C6-PFDA** | | 7:42 | 5.00 | 5.02 | 100 |
| **13C7-PFUnA** | | 7:59 | 5.00 | 4.73 | 94.5 |
| **13C2-PFDoA** | | 8:16 | 5.00 | 4.63 | 92.6 |
| **13C2-PFTeDA** | | 9:02 | 5.00 | 3.92 | 78.4 |
| **13C3-PFBS** | | 4:56 | 9.18 | 9.61 | 105 |
| **13C3-PFHxS** | | 6:29 | 10.0 | 10.4 | 104 |
| **13C8-PFOS** | | 7:47 | 10.0 | 9.38 | 93.8 |
| **13C2-4:2 FTS** | | 4:50 | 20.0 | 29.4 | 147 |
| **13C2-6:2 FTS** | | 6:03 | 20.0 | 28.4 | 142 |
| **13C2-8:2 FTS** | | 7:33 | 20.0 | 29.6 | 148 |
| **13C8-PFOSA** | | 8:55 | 10.0 | 10.5 | 105 |
| **D3-N-MeFOSA** | | 10:13 | 10.0 | 9.23 | 92.3 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 9.20 | 92.0 |
| **D3-MeFOSAA** | | 7:44 | 20.0 | 21.7 | 108 |
| **D5-EtFOSAA** | | 7:52 | 20.0 | 22.5 | 112 |
| **d7-NMe-FOSE** | | 10:04 | 100 | 103 | 103 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 107 | 107 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 45.2 | 113 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 12-Feb-2020 08:55:19; Application: XMLTransformer-1.17.17; Report Filename: PFOA_FC_LC_FC0L_022S56__Form4B_SJ2698232.html; Workgroup: WG71043; Design ID: 3770 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| HBCDD | alpha-hexabromocyclododecane (a-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | beta-hexabromocyclododecane (b-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | gamma-hexabromocyclododecane (g-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | Y | | | | Y | | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | Y | Y | Y | | | | | | | | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| TBBPA | Tetrabromobisphenol A | SGS AXYS MLA-079 | MLA-079 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum: CALA | Solids: Alaska DEC | Solids: ANAB DoD ** | Solids: ANAB ISO 17025 | Solids: CALA | Solids: California WB | Solids: Florida DOH | Solids: Maine DOH | Solids: Minnesota DOH | Solids: New Jersey DEP | Solids: New York DOH | Solids: Virginia DGS | Solids: Washington DE | Tissue: ANAB DoD ** | Tissue: ANAB ISO 17025 | Tissue: CALA | Tissue: Florida DOH | Tissue: Minnesota DOH | Tissue: New Jersey DEP | Tissue: Virginia DGS | Urine: CALA | Water: CALA | Water, Non-Potable: Alaska DEC | Water, Non-Potable: ANAB DoD ** | Water, Non-Potable: ANAB ISO 17025 | Water, Non-Potable: California WB | Water, Non-Potable: Florida DOH | Water, Non-Potable: Maine DOH | Water, Non-Potable: Minnesota DOH | Water, Non-Potable: New Jersey DEP | Water, Non-Potable: New York DOH | Water, Non-Potable: Pennsylvania DEP | Water, Non-Potable: Virginia DGS | Water, Non-Potable: Washington DE * | AFFF: ANAB DoD ** | AFFF: ANAB ISO 17025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

**Legend**

| | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forming foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| HBCDD | Hexabromocyclododecane |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TBBPA | Tetrabromobisphenol A |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

SGS AXYS

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SGS AXYS Client No.: 4095

Client Address: Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN, US, 55155-4194

The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG71835**

**Analysis WG71322**

## 11 March 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES** **PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**
**4095:** L32557-1 to -11

**Project name: P1007/60608807**
**Work order number: 3000025335**

**11 March 2020**

## NARRATIVE

This narrative describes the analysis of eleven aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The sample was received at SGS AXYS on the 17th of January 2020. The temperature of the samples upon receipt ranged from 1.8°C to 3.7°C, meeting the method recommended arrival temperature of 0-4°C. The samples were stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG71322; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of a procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, a matrix spike sample (MS), and a duplicate of the matrix spike sample (MSD). The lab blank and OPRs were prepared using Canadian Springs water as the matrix. Sample MW3B-GW-31-35-03-011320 (SGS AXYS ID: L32557-8) was used as the parent sample for the MS/MSD pair.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 500 mL of sample was accurately weighed. Each sample was then spiked with isotopically labeled quantification standards and extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L32557-X; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at

which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
N = authentic recovery in the OPR is not within method or contract control limits
U = identifies a compound that was not detected
V = surrogate recovery was not within method specifications

Results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The samples and QC samples were analyzed in one analysis batch and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank, and labeled compound recovery specifications were met with the following exceptions:

In the continuing calibration verifications (FC0L_035 S:12 and S:38), the surrogate compounds 13C 4:2 FTS, 13C 6:2 FTS and/or 13C 8:2 FTS were observed above the method control limit. As the target analytes 4:2 FTS, 6:2 FTS, and 5:2 FTS were observed within method specifications, this is deemed not to have any effect on the data.

In the OPR (SGS AXYS ID: WG71322-102) PFUnA and PFDoS were observed outside the MPCA contract limits, but met SGS AXYS method control limits and are flagged with an 'N'. Data for these analytes may be similarly affected.

Percent recoveries of several surrogates in the client samples were observed to be outside the method limits and these surrogates have been flagged with a 'V' on the report forms. As the isotope dilution method of quantification produces data that are recovery corrected, the slight variance from the method acceptance criteria is deemed not to affect the quantification of these analytes. Percent surrogate recoveries are used as a general method performance indicator only.

For the Matrix Spike testing samples (SGS AXYS ID's: WG71322-103 and -104), PFOA and PFOS had recoveries under the method criteria for the OPR. Due to the high level at which these analytes were detected in parent sample, the amount spiked into the sample makes up a small portion of the total amount in the sample; recoveries can fluctuate greatly due to instrument variance. Overall, the MS samples showed good agreement between expected and observed results.

**ANALYTICAL DISCUSSION**

No analytical difficulties were encountered.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG71835. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Signed: Jordan Berends, Data Validation Chemist

11-Mar-2020

Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 06**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue and AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] |
|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 530-2100 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 |
| Perfluoroalkyl sulfonates | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Fluorotelomer sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | 40 |
| Perfluorooctane sulfonamides | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamide ethanols | 8 | 5300 | 0.8 | 1.6 | 2.0 | 100 |
| Per- and polyfluoroether carboxylates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |
| Ether sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |

1 Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

2 A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

3 A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

4 A maximum of 2 g of tissue may be analyzed.

5 A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. Other AFFF products such as fluoroprotein foams maybe be analyzed using this method, but need special handling. Consult product Safety Data Sheets (SDS) and other information before confirming. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS.

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Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

### Perfluorooctane sulfonamidoacetic acids

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)


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**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)

Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction

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(SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**List of Surrogate and Recovery Standards**

| Surrogate Standards | Recovery Standards |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_4$-PFOA |
| $^{13}C_4$-PFHpA | $^{13}C_5$-PFNA |
| $^{13}C_8$-PFOA | $^{13}C_2$-PFDA |
| $^{13}C_9$-PFNA | $^{18}O_2$-PFHxS |
| $^{13}C_6$-PFDA | $^{13}C_4$-PFOS |
| $^{13}C_7$-PFUnA | |
| $^{13}C_2$-PFDoA | |
| $^{13}C_2$-PFTeDA | |
| $^{13}C_3$-PFBS | |
| $^{13}C_3$-PFHxS | |
| $^{13}C_8$-PFOS | |
| $^{13}C_2$-4:2 FTS | |
| $^{13}C_2$-6:2 FTS | |

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| | |
|---|---|
| $^{13}C_2$-8:2 FTS | |
| $^{13}C_8$-PFOSA | |
| $D_3$-N-MeFOSA | |
| $D_5$-N-EtFOSA | |
| $D_3$-N-MeFOSAA | |
| $D_5$-N-EtFOSAA | |
| $D_7$-N-MeFOSE | |
| $D_9$-N-EtFOSE | |
| $^{13}C_3$-HFPO-DA | |

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where} \quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes and Quantification References

| Target analytes | Quantified using |
|---|---|
| PFBA | $^{13}C_4$-PFBA |
| PFPeA | $^{13}C_5$-PFPeA |
| PFHxA | $^{13}C_5$-PFHxA |
| PFHpA | $^{13}C_4$-PFHpA |
| PFOA | $^{13}C_8$-PFOA |
| PFNA | $^{13}C_9$-PFNA |
| PFDA | $^{13}C_6$-PFDA |
| PFUnA | $^{13}C_7$-PFUnA |
| PFDoA | $^{13}C_2$-PFDoA |
| PFTrDA | $^{13}C_2$-PFTeDA |
| PFTeDA | $^{13}C_2$-PFTeDA |
| PFBS | $^{13}C_3$-PFBS [1] |
| PFPeS | $^{13}C_3$-PFHxS |
| PFHxS | $^{13}C_3$-PFHxS |
| PFHpS | $^{13}C_8$-PFOS |
| PFOS | $^{13}C_8$-PFOS |
| PFNS | $^{13}C_8$-PFOS |
| PFDS | $^{13}C_8$-PFOS |
| PFDoS | $^{13}C_8$-PFOS |
| 4:2 FTS | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | $^{13}C_2$-8:2 FTS |
| PFOSA | $^{13}C_8$-PFOSA |
| N-MeFOSA | $D_3$-N-MeFOSA |
| N-EtFOSA | $D_5$-N-EtFOSA |
| N-MeFOSAA | $D_3$-N-MeFOSAA |
| N-EtFOSAA | $D_5$-N-EtFOSAA |
| N-MeFOSE | $D_7$-N-MeFOSE |
| N-EtFOSE | $D_9$-N-EtFOSE |
| HFPO-DA | $^{13}C_3$-HFPO-DA |
| ADONA | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | $^{13}C_3$-HFPO-DA |

[1] If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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| Surrogate standards | Quantified using |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | $^{13}C_4$-PFOA |
| $^{13}C_8$-PFOA | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_9$-PFNA | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | $^{13}C_4$-PFOS |
| $^{13}C_2$-4:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | $^{13}C_2$-PFHxA |
| **Recovery standards** | **Quantified using** |
| $^{13}C_3$-PFBA | External |
| $^{13}C_2$-PFHxA | External |
| $^{13}C_4$-PFOA | External |
| $^{13}C_5$-PFNA | External |
| $^{13}C_2$-PFDA | External |
| $^{18}O_2$-PFHxS | External |
| $^{13}C_4$-PFOS | External |
| $^{13}C_3$-PFBA | External |

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) |
|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 |

Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater

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## DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid And AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] |
|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 |
| | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 |
| | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 |
| | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] |
| $D_5$-N-EtFOSA | 20-150 | [2] |
| | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] |
| $D_5$-N-EtFOSAA | 50-150 | [2] |
| | | |
| $D_7$-N-MeFOSE | 30-150 | [2] |
| $D_9$-N-EtFOSE | 30-150 | [2] |
| | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

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## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL. |

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| QC Parameter | Specification |
|---|---|
| | Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Anion Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**SGS AXYS Analytical Services Ltd.**

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90 day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies. For aqueous samples under DoD accreditation, the sample hold time is ≤14 days.

[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement. For samples under DoD accreditation the extract hold time is ≤28 days with storage at room temperature.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG71835** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG71322-101 |
| OPR | WG71322-102 |
| MATRX SPIKE | WG71322-103 |
| MATRX SPIKE DUPLICATE | WG71322-104 |
| | |
| 809964325853 | L32557-1 |
| 812543331168 | L32557-2 |
| EQ-MIXINGBOWL-011320 | L32557-3 |
| EQ-SCISSORS-011420 | L32557-4 |
| MW3B-GW-16.5-19-01-011320 | L32557-5 |
| MW3B-GW-31-35-01-011320 | L32557-6 |
| MW3B-GW-31-35-02-011320 | L32557-7 |
| MW3B-GW-31-35-03-011320 | L32557-8 |
| MW3B-GW-41-45-01-011320 | L32557-9 |
| MW3B-GW-51-55-01-011320 | L32557-10 |
| MW3B-GW-75-79-01-011420 | L32557-11 |
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www.axysanalytical.com

SGS AXYS

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

# CHAIN OF CUSTODY

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402, USA
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 500, Minneapolis, MN 55402, USA
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007 60618753

Sampler's Name: Amanda Lannin
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| MW3B-SOIL-15-16.5-01-011320 | Soil | 1/13/20 | 1120 | HDPE/1 | L32561-1 | X | | | |
| MW3B-GW-16.5-19-01-011320 | ~~water~~ GW | 1/13/20 | 1130 | HDPE/4 | L32557-5 | X | | | |
| MW3B-SOIL-31-35-01-011320 | Soil | 1/13/20 | 1315 | HDPE/1 | L32561-2 | X | | | |
| MW3B-SOIL-31-35-02-011320 | Soil | 1/13/20 | 1320 | HDPE/1 | -3 | X | | | |
| MW3B-SOIL-31-35-03-011320 | Soil | 1/13/20 | 1325 | HDPE/1 | -4 | X | | | |
| MW3B-GW-31-35-01-011320 | ~~water~~ GW | 1/13/20 | 1400 | HDPE/4 | L32557-6 | X | | | |
| MW3B-GW-31-35-02-011320 | ~~water~~ GW | 1/13/20 | 1405 | HDPE/4 | -7 | X | | | |
| MW3B-GW-31-35-03-011320 | ~~water~~ GW | 1/13/20 | 1410 | 8/HDPE | -8 | X | X | X | |
| MW3B-SOIL-41-42-01-011320 | Soil | 1/13/20 | 1450 | HDPE/1 | L32561-5 | X | | | |
| MW3B-SOIL-44-45-01-011320 | Soil | 1/13/20 | 1455 | HDPE/1 | -6 | X | | | |
| 8049 6432 5853 | water | 1/13/20 | — | HDPE/1 | L32557-1 | X | | | X |

Relinquished by (Signature): [signature] Date: 01/16/20 Time: 1645
Received by (Signature): [signature] Date: 17 Jan 2020 Time: 11:35

~~Relinquished by (Signature)~~ Date Time
Received by (Signature) Date Time

Courier: Fed Ex
Waybill No.: 809964325853

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave, Ste 500 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone:
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: "
Contact: Andrew Tarara
Phone:
FAX:
E-mail: "

Project Name/Number: PH007 60618753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: MLA-110, MS, MSD, Trip Blank

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| EQ-MIXINGBOWL-011320 | water | 01/13/20 | 1145 | HDPE/2 | L32557-3 | X | | | |
| EQ-SCISSORS-011420 | water | 01/14/20 | 1700 | HDPE/2 | -4 | X | | | |
| MW3B-SOIL-165-19-01-011320 | soil | 01/13/20 | 1125 | HDPE/1 | L32561-7 | X | | | |
| MW3B-GW-41-45-01-011320 | GW | 01/13/20 | 1545 | HDPE/4 | L32557-9 | X | | | |
| MW3B-GW-51-55-01-011320 | GW | 01/13/20 | 1725 | HDPE/4 | -10 | X | | | |
| MW3B-SOIL-74-75-01-011420 | SOIL | 01/14/20 | 0925 | HDPE/1 | L32561-10 | X | | | |
| MW3B-SOIL-75-79-01-011420 | SOIL | 01/14/20 | 0945 | HDPE/1 | -11 | X | | | |
| MW3B-GW-75-79-01-011420 | GW | 01/14/20 | 1000 | HDPE/4 | L32557-11 | X | | | |
| MW3B-SOIL-51-53-01-011320 | SOIL | 01/13/20 | 1625 | HDPE/1 | L32561-8 | X | | | |
| MW3B-SOIL-53-55-01-011320 | SOIL | 01/13/20 | 1630 | HDPE/1 | -9 | X | | | |
| 812543331168 | water | 01/14/20 | — | HDPE/1 | L32557-2 | X | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| AL Amanda Lanning | 01/16/20 | | | | |
| [signature] | 01/16/20 | 1645 | [signature] | 17 Jan 2020 | 15:55 |

Courier:
Waybill No.: 812543331168

Remarks:

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

# FedEx Express International Air Waybill

FedEx Tracking Number 8099 6432 5853 Form ID No. 0402 **Origin Copy**

**1 From**

Date 01/15/20 Sender's FedEx Account Number 1410-8[illegible]-7

Sender's Name Andrew Tarona Phone 612-376-[illegible]

Company AECOM

Address 400 LaSalle Ave Ste 500

Address

City Minneapolis State Province MN

Country USA ZIP Postal Code 55403

**2 To**

Recipient's Name Sample Receiving Phone 2506555800

Company SGS Axys analytical

Address 2045 Mills Rd W Dept/Floor

Address

City Sidney State Province BC

Country CA ZIP Postal Code V8L5X2

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

**3 Shipment Information** ☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC _____ Total Weight _____ lbs. ☐ kg ☐ DIM ___ / ___ / ___ in. ☐ cm ☐

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| [illegible] | [illegible] | USA | [illegible] |

Has EEI been filed in AES? For U.S. Export Only: Check One ☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception: _____
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency)

**4 Express Package Service**

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

1 ☒ FedEx Intl. Priority 6 ☐ FedEx Intl. First Available to select locations.

☐ _____ 3 ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

4095

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

**5 Packaging** *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube

1 ☐ Other [illegible] PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

**6 Special Handling**

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

**7 Payment** Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque Total Transportation

FedEx Acct. No. [redacted]

Credit Card Exp. Date _____ Specify Currency

*Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No. _____

**8 Your Internal Billing Reference** First 24 characters will appear on invoice.

**9 Required Signature**

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:** _____

*This is not authorization to deliver this shipment without a recipient signature.*

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature: _____

568

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Rev. Date 11/08
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FedEx Tracking Number 8099 6432 5853 0402 Form ID No.

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units |
|---|---|---|---|
| | | | Total Volume (cm) |

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station Forms Attached: ☐ CI ☐ CO

Base Charges _____ Declared Val. Chrg. _____ Other _____ ODA/OPA _____ Credit Card Auth. _____

FedEx Emp. # _____ Audit Emp. # _____ Date _____ Time _____ Del. Courier Emp. # _____ Date _____ Time _____

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

RRDA 12/15

# FedEx Express International Air Waybill

15:55 +3 D.JP 17Jan2020

17Jan2020 D.Bryan

FedEx Tracking Number 8099 6432 5956 Form ID No. 0402 **Origin Copy**

## 1 From

Date [illegible] Sender's FedEx Account Number [illegible]

Sender's Name Andrew Tarara Phone [illegible]

Company [illegible]

Address [illegible]

Address

City [illegible] State Province MN

Country ZIP Postal Code

## 2 To

Recipient's Name [illegible] Phone [illegible]

Company [illegible]

Address Dept./Floor

Address [illegible]

City [illegible] State Province [illegible]

Country CA ZIP Postal Code [illegible]

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

## 3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC _____ Total Weight _____ lbs. ☐ kg ☐ DIM ___ / ___ / ___ in. ☐ cm ☐

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception: _____
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency)

## 4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

1 ☐ FedEx Intl. Priority 5716
6 ☐ FedEx Intl. First Available to select locations. 3.8
☐ _____
3 ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

wet ice, melting

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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## 5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☐ Other _____ PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

## 6 Special Handling

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only. X Date

## 7 Payment

Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque Total Transportation

FedEx Acct. No. [redacted]

Credit Card Exp. Date Specify Currency

*Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☒ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No. [illegible]

## 8 Your Internal Billing Reference

First 24 characters will appear on invoice.

## 9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:**

*This is not authorization to deliver this shipment without a recipient signature.*

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature:

568

PART 158410
Rev. Date 11/08
©1994–2008 FedEx
PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6432 5956 0402 Form ID No.

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units |
|---|---|---|---|
| | | | Total Volume (cm) |

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station Forms Attached: ☐ CI ☐ CO

Base Charges _____ Declared Val. Chrg. _____ Other _____ ODA/OPA _____ Credit Card Auth. _____

FedEx Emp. # _____ Audit Emp. # _____ Date _____ Time _____ Del. Courier Emp. # _____ Date _____ Time _____

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

RRDA 12/15

4095

ORIGIN ID:JDTA (612) 376-2452
ANDREW TARARA
AECOM
800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 16JAN20
ACTWGT: 51.30 LB
CAD: 6992597/SSF02021

DIMS: 27x14x13 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RADB

TO **SAMPLE RECIEVING**
**SGS AXYS ANALYTICAL**
**2045 MILLS RDWY**

**Sidney, BC V8L5X2**

**CANADA, CA**

(250) 655-5800

**FedEx** Express

**(CA)**

**AWB**

**E**

J1291190

**XQ YYJA**
**DSR AHS**
**PKG:YOUR PKG**

TRK# **8099 6432 5853**

Form 0402

**AM**
**INTL PRIORITY**

REF:
DESC1:SOIL - 6x 250ml HDPE JARS CONTAINING SOLID SAMPLES FOR SCIEI
DESC2:LIQUIDS, NON-HAZ - 21x HDPE BOTTLES MIXED GROUND WATER & UL
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US US
CARRIAGE VALUE: 105.00 USD
CUSTOMS VALUE: 105.00 USD

SIGN: ANDREW TARARA
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

11:35
5716
1.7°C
Bagged wet ice, melting

RECEIVED
JAN 17 2020

4095

905 | YVR | 11578862 ORIGINAL Airwaybill # 905-11578862

Shipper's Name & Address
AECOM
800 LASALLE AVENUE
MINNEAPOLIS
MN
USA
Tel : 612-376-2047 Mobile :

Shipper's Account Number

Not negotiable
**Air Waybill**
Issued by

Pacific Coastal AIRLINES

Consignee's Name & Address
SGS AXYS ANALYTICAL SERVICES LTD
2045 MILLS RD WEST
SIDNEY
BCCanada
Tel : (250) 655-5800 Ext. 0000 Mobile :

Consignee's Account Number
A227

It is agreed that the goods declared herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY.

It is agreed that the Goods described herein are accepted in apparent good order and condition (Except as Noted).
Date 20 Time AM PM
Consignee's Printed Name X Consignee Signature X

Issuing Carrier's Agent's Name & City
Pacific Coastal Cargo

Agent's IATA Code | Account No.

Airport of Departure (Addr. of first Carrier) and requested Routing
Vancouver Airport

Accounting Information

COLLECT PAYMENT AT DESTINATION
CHARGE TO CONSIGNEE ACCOUNT - A227
SECURITY ID : Physical Search
PRIORITY : 3

| to | By first carrier / Routing & Destination | to | by | to | by | Currency | Chgs Code | WT VAL PPD | WT VAL COLL | Other PPD | Other COLL | Declared value for Carriage | Declared value for Customs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YYJ | 8P | | | | | CAD | CC | | XX | | XX | NDV | NCV |

Airport of Destination
Victoria

Flight/Date / For Carrier Use Only / Flight/Date

Amount of Insurance

INSURANCE - If carrier offers Insurance and such Insurance is requested in accordance with conditions on reverse hereof indicate amount to be insured in figure in box marked Amount of Insurance

Handling Information:
SLA: Space available loading only

| No. of Pieces RCP | Gross Weight | KG LB | Rate Class / Commodity Item No. | Chargeable Weight | Rate / Charge | Total | Nature and Quantity of Goods (incl. Dimensions or Volume) |
|---|---|---|---|---|---|---|---|
| 1 | 46 | LB | STBY | 46 | 0.72 | 33.12 | SOIL SAMPLES NON HAZ<br>1 @ 58.4x30.5x33.0 CM |
| 1 | 46 | | | | | | |

| | | |
|---|---|---|
| Prepaid / Weight Charge / Collect: 33.12 | SEC 5.00, GST 1.91 | |
| Valuation Charge | | |
| Tax: 1.91 | | |
| Total other charges Due Agent | I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met | |
| Total other charges Due Carrier: 5.00 | | |
| | trevor ID bcdl<br>Signature of Shipper or his Agent | |
| Total Prepaid | Total Collect: 40.03 | |
| Currency Conversion Rates | CC charges in Dest. Currency | 17 January 2020 13:48 VANCOUVER AIRPORT LAWJ1<br>Executed on (Date) at (Place) Signature of issuing Carrier or its Agent |

| For Carriers Use only at Destination | Charges at Destination | Total Collect Charges: 40.03 |
|---|---|---|

905-11578862
17 January 2020 12:48

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 16-JAN-20

Waybill #: 809964325853
Date /Time Received: 17-JAN-20 11:35
Receipt No: WB27043

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: Jenifer Carlson Signature: Jenifer Carlson

Axys Sample ID's: L32561-1 to -6, -8, -9 L32557-1, -5 to -8

Matrix Type: seds/water

Thermometer ID: 5716

Condition of Shipping Container: intact

Corrected Temperature: 1.6 Celcius

Temperature upon Receipt: 1.7 Celcius bagged wet ice, melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No _____
- Preservative Added at SGS AXYS Yes /No _____

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : **Yes /No**
Date Shipped: **16-JAN-20**

Waybill #: **809964325956**
Date /Time Received: **17-JAN-20 15:55**
Receipt No: **WB27044**

Login:

SGS AXYS Client & Contract # **4095-Minnesota Pollution Control**

Received By: **DPAYNE**

Log in by: Jenifer Carlson Signature: Jenifer Carlson

Axys Sample ID's: L32561-7,-10,-11 L32557-240-4,-9 to -11

Matrix Type: **AQ**

Condition of Shipping Container: Intact

Thermometer ID: **5716**

Corrected Temperature: **3.7 Celcius**

Temperature upon Receipt: **3.8 Celcius** **wet ice, melting**

Samples received above temperature: **Yes /No**

Custody Seals: Shipping Containers **Yes /(No)** Intact **Yes /No** Seal Numbers **Yes /No** Signature and Date **Yes /No**

Samples **Yes /(No)** Intact **Yes /No** Seal Numbers **Yes /No** Signature and Date **Yes /No**

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | (Yes) /No | Tracking Report /Packing List: | (Yes) /No |
| Sample ID's | (Yes) /No | Sample Tag Numbers | (Yes) /No |
| Collection Location | (Yes) /No | Sample Type | (Yes) /No |
| Date & Time Collection | (Yes) /No | Preservative Added Prior to Receipt | (Yes) /No |
| Collector's Name | (Yes) /No | Preservative Added at SGS AXYS | (Yes) /No |

Sample Tags **Yes /(No)**

Sample Tags Cross Referenced to Sample Labels **Yes /No** Information Agrees **Yes /No**

Sample Tags Cross Referenced to COC **Yes /No** Information Agrees **Yes /No**

Sample Labels **(Yes) /No**

Sample Labels Cross Referenced to COC **(Yes) /No**

Information Agrees **(Yes) /No**

Samples logged in as per previous submissions **Yes /No**

Samples logged in as per COC **Yes /No**

Discrepancies attached **Yes /No**

Sample Container breakage **Yes /(No)**

Sample Lid breakage **Yes /(No)**

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

For scanning
DPR
24-Jan-2020

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 24, 2020*
*02:54 PM*

**Login Number:** L32557
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32557-1** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| 809964325853 | FIELDQC | | | |
| 13-JAN-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L32557-2** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| 812543331168 | FIELDQC | | | |
| 14-JAN-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L32557-3** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| EQ-MIXINGBOWL-011320 | FIELDQC | | | |
| 13-JAN-20 11:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L32557-4** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| EQ-SCISSORS-011420 | FIELDQC | | | |
| 14-JAN-20 17:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Jan. 24, 2020*
*02:54 PM*

**Login Number:** L32557
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32557-5** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| MW3B-GW-16.5-19-01-011320 | 847053 | | | |
| 13-JAN-20 11:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32557-6** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| MW3B-GW-31-35-01-011320 | 847053 | | | |
| 13-JAN-20 14:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32557-7** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| MW3B-GW-31-35-02-011320 | 847053 | | | |
| 13-JAN-20 14:05 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jan. 24, 2020*
*02:54 PM*

**Login Number:** L32557
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32557-8** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| MW3B-GW-31-35-03-011320 | 847053 | | | |
| 13-JAN-20 14:10 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L32557-9** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| MW3B-GW-41-45-01-011320 | 847053 | | | |
| 13-JAN-20 15:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32557-10** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| MW3B-GW-51-55-01-011320 | 847053 | | | |
| 13-JAN-20 17:25 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jan. 24, 2020*
*02:54 PM*

**Login Number:** L32557
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32557-11** | | 17-JAN-20 | | |
| | Storage: WIF4, 5D | | | |
| MW3B-GW-75-79-01-011420 | 847053 | | | |
| 14-JAN-20 10:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

WB27043

L32561-1 to -6, -8, -9
L32557-1, -5 to -8

4095
20 Jan 2020
Processed by: JTC

WB27044

L32561-7, -10, -11
L32557-2 to -4, -9 to -11

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**809964325853**
**Sample Collection:**
**13-Jan-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:03:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.20 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**809964325853**
**Sample Collection:**
**13-Jan-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:03:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.5 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.5 | 97.6 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 9.10 | 91.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.97 | 89.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.89 | 88.9 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.36 | 87.3 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.70 | 94.0 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.56 | 91.1 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.24 | 84.8 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.53 | 70.5 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.38 | 93.8 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 9.12 | 91.2 | 6:23 |
| **13C8-PFOS** | | 10.0 | 9.22 | 92.2 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 25.0 | 125 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 25.9 | 130 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 31.9 | 159 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.49 | 94.9 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.20 | 52.0 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 5.37 | 53.7 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.2 | 106 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 21.3 | 106 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 101 | 101 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 80.9 | 80.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 48.5 | 121 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-1_Form2_FC0L_035S20_SJ2702792.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**812543331168**
**Sample Collection:**
**14-Jan-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:16:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.20 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**812543331168**
**Sample Collection:**
**14-Jan-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:16:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.2 | 85.5 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 97.2 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.84 | 88.4 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.96 | 79.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.81 | 78.1 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.19 | 83.9 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.74 | 94.8 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 2.60 | 52.0 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 3.89 | 77.8 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.31 | 66.2 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.04 | 90.4 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.95 | 89.5 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.79 | 87.9 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 25.0 | 125 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 27.9 | 139 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 31.3 | 156 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.02 | 90.2 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.36 | 53.6 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.52 | 55.2 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 22.8 | 114 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 20.2 | 101 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 92.2 | 92.2 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 104 | 104 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 46.4 | 116 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-2_Form2_FC0L_035S21_SJ2702793.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-MIXINGBOWL-011320**
**Sample Collection:**
**13-Jan-2020 11:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.550 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:29:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 2.91 (L) | |
| **PFPeA** | U | | 1.46 (L) | |
| **PFHxA** | U | | 0.728 (L) | |
| **PFHpA** | U | | 0.728 (L) | |
| **PFOA** | U | | 0.728 (L) | |
| **PFNA** | U | | 0.728 (L) | |
| **PFDA** | U | | 0.728 (L) | |
| **PFUnA** | U | | 0.728 (L) | |
| **PFDoA** | U | | 0.728 (L) | |
| **PFTrDA** | U | | 0.728 (L) | |
| **PFTeDA** | U | | 0.728 (L) | |
| **PFBS** | U | | 0.728 (L) | |
| **PFPeS** | U | | 0.728 (L) | |
| **PFHxS** | U | | 0.728 (L) | |
| **PFHpS** | U | | 0.728 (L) | |
| **PFOS** | U | | 0.728 (L) | |
| **PFNS** | U | | 0.728 (L) | |
| **PFDS** | U | | 0.728 (L) | |
| **PFDoS** | U | | 0.728 (L) | |
| **4:2 FTS** | U | | 2.91 (L) | |
| **6:2 FTS** | U | | 2.62 (L) | |
| **8:2 FTS** | U | | 2.91 (L) | |
| **PFOSA** | U | | 0.728 (L) | |
| **N-MeFOSA** | U | | 0.837 (L) | |
| **N-EtFOSA** | U | | 1.82 (L) | |
| **MeFOSAA** | U | | 0.728 (L) | |
| **EtFOSAA** | U | | 0.728 (L) | |
| **N-MeFOSE** | U | | 7.28 (L) | |
| **N-EtFOSE** | U | | 5.46 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 2.91 (L) | |
| **9Cl-PF3ONS** | U | | 2.91 (L) | |
| **11Cl-PF3OUdS** | U | | 2.91 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-3_Form1A_FC0L_035S22_SJ2702794.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EQ-MIXINGBOWL-011320**
**Sample Collection:**
**13-Jan-2020 11:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.550 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:29:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.4 | 83.6 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 95.2 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.75 | 87.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.96 | 79.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.08 | 80.8 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.11 | 82.2 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.65 | 93.1 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.90 | 77.9 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.50 | 90.0 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.40 | 67.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.86 | 98.6 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 9.42 | 94.2 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.42 | 84.2 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 27.0 | 135 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 29.1 | 146 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 31.5 | 158 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 8.81 | 88.1 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.29 | 52.9 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.40 | 54.0 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 18.2 | 90.8 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 17.9 | 89.5 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 83.3 | 83.3 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 81.6 | 81.6 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 45.3 | 113 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-3_Form2_FC0L_035S22_SJ2702794.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-SCISSORS-011420**
**Sample Collection:**
**14-Jan-2020 17:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.521 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:42:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.07 (L) | |
| **PFPeA** | U | | 1.53 (L) | |
| **PFHxA** | U | | 0.767 (L) | |
| **PFHpA** | U | | 0.767 (L) | |
| **PFOA** | U | | 0.767 (L) | |
| **PFNA** | U | | 0.767 (L) | |
| **PFDA** | U | | 0.767 (L) | |
| **PFUnA** | U | | 0.767 (L) | |
| **PFDoA** | U | | 0.767 (L) | |
| **PFTrDA** | U | | 0.767 (L) | |
| **PFTeDA** | U | | 0.767 (L) | |
| **PFBS** | U | | 0.767 (L) | |
| **PFPeS** | U | | 0.767 (L) | |
| **PFHxS** | U | | 0.767 (L) | |
| **PFHpS** | U | | 0.767 (L) | |
| **PFOS** | U | | 0.767 (L) | |
| **PFNS** | U | | 0.767 (L) | |
| **PFDS** | U | | 0.767 (L) | |
| **PFDoS** | U | | 0.767 (L) | |
| **4:2 FTS** | U | | 3.07 (L) | |
| **6:2 FTS** | U | | 2.76 (L) | |
| **8:2 FTS** | U | | 3.07 (L) | |
| **PFOSA** | U | | 0.767 (L) | |
| **N-MeFOSA** | U | | 0.882 (L) | |
| **N-EtFOSA** | U | | 1.92 (L) | |
| **MeFOSAA** | U | | 0.767 (L) | |
| **EtFOSAA** | U | | 0.767 (L) | |
| **N-MeFOSE** | U | | 7.67 (L) | |
| **N-EtFOSE** | U | | 5.75 (L) | |
| **HFPO-DA** | U | | 3.07 (L) | |
| **ADONA** | U | | 3.07 (L) | |
| **9Cl-PF3ONS** | U | | 3.07 (L) | |
| **11Cl-PF3OUdS** | U | | 3.07 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-4_Form1A_FC0L_035S23_SJ2702795.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-SCISSORS-011420**
**Sample Collection:**
**14-Jan-2020 17:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.521 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:42:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.1 | 82.8 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 18.5 | 92.7 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.93 | 89.3 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.75 | 77.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.70 | 77.0 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.49 | 89.7 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.63 | 92.7 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.34 | 86.9 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.41 | 88.2 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.48 | 69.5 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.61 | 96.1 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.42 | 84.2 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.54 | 85.4 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 27.4 | 137 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 28.3 | 142 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 30.5 | 153 | 7:28 |
| **13C8-PFOSA** | | 10.0 | 8.60 | 86.0 | 8:51 |
| **D3-N-MeFOSA** | | 10.0 | 5.21 | 52.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.09 | 50.9 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 18.6 | 93.2 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 18.7 | 93.5 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 78.1 | 78.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 72.1 | 72.1 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 44.2 | 110 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-4_Form2_FC0L_035S23_SJ2702795.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-16.5-19-01-011320**
**Sample Collection:**
**13-Jan-2020 11:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:55:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 76.3 | 2.92 (L) | 2:01 |
| **PFPeA** | | 3.45 | 1.46 (L) | 4:17 |
| **PFHxA** | J | 1.46 | 0.730 (L) | 4:54 |
| **PFHpA** | U | | 0.730 (L) | |
| **PFOA** | | 1.95 | 0.730 (L) | |
| **PFNA** | U | | 0.730 (L) | |
| **PFDA** | U | | 0.730 (L) | |
| **PFUnA** | U | | 0.730 (L) | |
| **PFDoA** | U | | 0.730 (L) | |
| **PFTrDA** | U | | 0.730 (L) | |
| **PFTeDA** | U | | 0.730 (L) | |
| **PFBS** | | 2.48 | 0.730 (L) | 4:52 |
| **PFPeS** | U | | 0.730 (L) | |
| **PFHxS** | U | | 0.730 (L) | |
| **PFHpS** | U | | 0.730 (L) | |
| **PFOS** | U | | 0.730 (L) | |
| **PFNS** | U | | 0.730 (L) | |
| **PFDS** | U | | 0.730 (L) | |
| **PFDoS** | U | | 0.730 (L) | |
| **4:2 FTS** | U | | 2.92 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.92 (L) | |
| **PFOSA** | U | | 0.730 (L) | |
| **N-MeFOSA** | U | | 0.840 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.730 (L) | |
| **EtFOSAA** | U | | 0.730 (L) | |
| **N-MeFOSE** | U | | 7.30 (L) | |
| **N-EtFOSE** | U | | 5.48 (L) | |
| **HFPO-DA** | U | | 2.92 (L) | |
| **ADONA** | U | | 2.92 (L) | |
| **9Cl-PF3ONS** | U | | 2.92 (L) | |
| **11Cl-PF3OUdS** | U | | 2.92 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-5_Form1A_FC0L_035S24_SJ2702796.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW3B-GW-16.5-19-01-011320**
**Sample Collection:**
**13-Jan-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 19:55:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 31.8 | 79.5 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.0 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 9.04 | 90.4 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.39 | 83.9 | 5:27 |
| **13C8-PFOA** | | 10.0 | 8.17 | 81.7 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.27 | 85.4 | 7:07 |
| **13C6-PFDA** | | 5.00 | 3.50 | 70.0 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.04 | 80.9 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.25 | 85.0 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.02 | 60.5 | 8:57 |
| **13C3-PFBS** | | 10.0 | 8.97 | 89.7 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.61 | 86.1 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.69 | 86.9 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 24.5 | 123 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 26.5 | 133 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 30.1 | 151 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.15 | 91.5 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.56 | 55.6 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.63 | 56.3 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 22.1 | 110 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 20.0 | 100 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 83.7 | 83.7 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 79.8 | 79.8 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 47.7 | 119 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-5_Form2_FC0L_035S24_SJ2702796.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-01-011320**
**Sample Collection:**
**13-Jan-2020 14:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:09:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 436 | 2.94 (L) | 2:01 |
| **PFPeA** | | 23.3 | 1.47 (L) | 4:17 |
| **PFHxA** | | 33.9 | 0.734 (L) | 4:54 |
| **PFHpA** | | 18.3 | 0.734 (L) | 5:28 |
| **PFOA** | | 216 | 0.807 (S) | |
| **PFNA** | J | 1.26 | 0.734 (L) | |
| **PFDA** | J | 1.02 | 0.734 (L) | 7:37 |
| **PFUnA** | U | | 0.734 (L) | |
| **PFDoA** | U | | 0.734 (L) | |
| **PFTrDA** | U | | 0.734 (L) | |
| **PFTeDA** | U | | 0.734 (L) | |
| **PFBS** | | 11.7 | 0.734 (L) | 4:52 |
| **PFPeS** | | 9.48 | 0.734 (L) | 5:29 |
| **PFHxS** | | 19.6 | 0.734 (L) | |
| **PFHpS** | | 4.32 | 0.734 (L) | 7:15 |
| **PFOS** | | 279 | 0.734 (L) | |
| **PFNS** | U | | 0.734 (L) | |
| **PFDS** | U | | 0.734 (L) | |
| **PFDoS** | U | | 0.734 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.64 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | U | | 0.734 (L) | |
| **N-MeFOSA** | U | | 0.844 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.734 (L) | |
| **EtFOSAA** | U | | 0.734 (L) | |
| **N-MeFOSE** | U | | 7.34 (L) | |
| **N-EtFOSE** | U | | 5.50 (L) | |
| **HFPO-DA** | U | | 2.94 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-6_Form1A_FC0L_035S25_SJ2702797.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-01-011320**
**Sample Collection:**
**13-Jan-2020 14:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:09:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 29.5 | 73.8 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.7 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.73 | 87.3 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.13 | 81.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.84 | 78.4 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.24 | 84.8 | 7:07 |
| **13C6-PFDA** | | 5.00 | 5.00 | 99.9 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.62 | 112 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 5.00 | 100 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.75 | 75.1 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.15 | 91.5 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.53 | 85.3 | 6:23 |
| **13C8-PFOS** | | 10.0 | 9.16 | 91.6 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 23.8 | 119 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 26.6 | 133 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 29.9 | 149 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.73 | 97.3 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.77 | 57.7 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 6.15 | 61.5 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 23.0 | 115 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 19.2 | 95.9 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 84.5 | 84.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 83.0 | 83.0 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 42.4 | 106 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-6_Form2_FC0L_035S25_SJ2702797.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-02-011320**
**Sample Collection:**
**13-Jan-2020 14:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:21:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 418 | 2.94 (L) | 2:01 |
| **PFPeA** | | 21.8 | 1.47 (L) | 4:17 |
| **PFHxA** | | 35.1 | 0.734 (L) | 4:54 |
| **PFHpA** | | 17.8 | 0.734 (L) | 5:28 |
| **PFOA** | | 219 | 0.937 (S) | |
| **PFNA** | J | 1.02 | 0.734 (L) | |
| **PFDA** | J | 0.979 | 0.734 (L) | 7:37 |
| **PFUnA** | U | | 0.734 (L) | |
| **PFDoA** | U | | 0.734 (L) | |
| **PFTrDA** | U | | 0.734 (L) | |
| **PFTeDA** | U | | 0.734 (L) | |
| **PFBS** | | 11.3 | 0.734 (L) | 4:52 |
| **PFPeS** | | 9.29 | 0.734 (L) | 5:29 |
| **PFHxS** | | 19.0 | 0.734 (L) | |
| **PFHpS** | | 4.29 | 0.734 (L) | 7:15 |
| **PFOS** | | 288 | 0.734 (L) | |
| **PFNS** | U | | 0.734 (L) | |
| **PFDS** | U | | 0.734 (L) | |
| **PFDoS** | U | | 0.734 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.64 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | U | | 0.734 (L) | |
| **N-MeFOSA** | U | | 0.845 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.734 (L) | |
| **EtFOSAA** | U | | 0.734 (L) | |
| **N-MeFOSE** | U | | 7.34 (L) | |
| **N-EtFOSE** | U | | 5.51 (L) | |
| **HFPO-DA** | U | | 2.94 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-7_Form1A_FC0L_035S26_SJ2702798.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-02-011320**
**Sample Collection:**
**13-Jan-2020 14:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:21:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.1 | 80.2 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 18.5 | 92.5 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 7.90 | 79.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.13 | 81.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.61 | 76.1 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.18 | 83.6 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.01 | 80.1 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.20 | 83.9 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 3.64 | 72.9 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 2.80 | 55.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 8.72 | 87.2 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.51 | 85.1 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.30 | 83.0 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 22.7 | 113 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 24.6 | 123 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 27.4 | 137 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.07 | 90.7 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.97 | 59.7 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.71 | 57.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.0 | 105 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.5 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 84.9 | 84.9 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 82.3 | 82.3 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 42.5 | 106 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-7_Form2_FC0L_035S26_SJ2702798.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320**
**Sample Collection:**
**13-Jan-2020 14:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-8 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.536 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:35:03 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 445 | 2.98 (L) | 2:01 |
| **PFPeA** | | 24.2 | 1.49 (L) | 4:17 |
| **PFHxA** | | 34.2 | 0.746 (L) | 4:54 |
| **PFHpA** | | 18.7 | 0.746 (L) | 5:28 |
| **PFOA** | | 220 | 0.885 (S) | |
| **PFNA** | J | 1.22 | 0.746 (L) | |
| **PFDA** | J | 0.859 | 0.746 (L) | 7:38 |
| **PFUnA** | U | | 0.746 (L) | |
| **PFDoA** | U | | 0.746 (L) | |
| **PFTrDA** | U | | 0.746 (L) | |
| **PFTeDA** | U | | 0.746 (L) | |
| **PFBS** | | 11.3 | 0.746 (L) | 4:52 |
| **PFPeS** | | 9.93 | 0.746 (L) | 5:29 |
| **PFHxS** | | 20.7 | 0.746 (L) | |
| **PFHpS** | | 4.39 | 0.746 (L) | 7:15 |
| **PFOS** | | 307 | 0.746 (L) | |
| **PFNS** | U | | 0.746 (L) | |
| **PFDS** | U | | 0.746 (L) | |
| **PFDoS** | U | | 0.746 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.69 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | U | | 0.746 (L) | |
| **N-MeFOSA** | U | | 0.858 (L) | |
| **N-EtFOSA** | U | | 1.87 (L) | |
| **MeFOSAA** | U | | 0.746 (L) | |
| **EtFOSAA** | U | | 0.746 (L) | |
| **N-MeFOSE** | U | | 7.46 (L) | |
| **N-EtFOSE** | U | | 5.60 (L) | |
| **HFPO-DA** | U | | 2.98 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-8_Form1A_FC0L_035S27_SJ2702799.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320**
**Sample Collection:**
**13-Jan-2020 14:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-8 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.536 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:35:03 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 29.6 | 74.0 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 17.3 | 86.5 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.59 | 85.9 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.52 | 85.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.93 | 79.3 | 6:17 |
| **13C9-PFNA** | | 5.00 | 3.71 | 74.2 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.66 | 93.2 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 2.86 | 57.2 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.20 | 84.0 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.57 | 71.3 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.44 | 94.4 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.40 | 84.0 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.03 | 80.3 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 22.6 | 113 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 25.9 | 129 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.5 | 143 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.21 | 92.1 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.22 | 52.2 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.29 | 52.9 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.2 | 106 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 19.1 | 95.3 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 79.1 | 79.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 77.5 | 77.5 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 42.8 | 107 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-8_Form2_FC0L_035S27_SJ2702799.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW3B-GW-41-45-01-011320**
**Sample Collection:**
**13-Jan-2020 15:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:48:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 164 | 2.98 (L) | 2:01 |
| **PFPeA** | | 11.2 | 1.49 (L) | 4:17 |
| **PFHxA** | | 18.5 | 0.745 (L) | 4:54 |
| **PFHpA** | | 13.6 | 0.745 (L) | 5:28 |
| **PFOA** | | 152 | 0.813 (S) | |
| **PFNA** | | 1.56 | 0.745 (L) | |
| **PFDA** | | 2.46 | 0.745 (L) | 7:37 |
| **PFUnA** | U | | 0.745 (L) | |
| **PFDoA** | U | | 0.745 (L) | |
| **PFTrDA** | U | | 0.745 (L) | |
| **PFTeDA** | U | | 0.745 (L) | |
| **PFBS** | | 5.69 | 0.745 (L) | 4:52 |
| **PFPeS** | | 5.48 | 0.745 (L) | 5:29 |
| **PFHxS** | | 14.1 | 0.745 (L) | |
| **PFHpS** | | 3.97 | 0.745 (L) | 7:14 |
| **PFOS** | | 483 | 0.745 (L) | |
| **PFNS** | U | | 0.745 (L) | |
| **PFDS** | U | | 0.745 (L) | |
| **PFDoS** | U | | 0.745 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | | 1.72 | 0.745 (L) | |
| **N-MeFOSA** | U | | 0.857 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.745 (L) | |
| **EtFOSAA** | U | | 0.745 (L) | |
| **N-MeFOSE** | U | | 7.45 (L) | |
| **N-EtFOSE** | U | | 5.59 (L) | |
| **HFPO-DA** | U | | 2.98 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-9_Form1A_FC0L_035S28_SJ2702800.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-41-45-01-011320**
**Sample Collection:**
**13-Jan-2020 15:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 20:48:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 15.3 | 38.2 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.3 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.90 | 89.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.34 | 83.4 | 5:27 |
| **13C8-PFOA** | | 10.0 | 7.87 | 78.7 | 6:17 |
| **13C9-PFNA** | | 5.00 | 3.99 | 79.9 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.36 | 87.3 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 3.52 | 70.4 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.14 | 82.9 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 2.99 | 59.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.03 | 90.3 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.62 | 86.2 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.74 | 87.4 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 23.8 | 119 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 26.6 | 133 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.4 | 142 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.0 | 100 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 6.33 | 63.3 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.91 | 59.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.9 | 109 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 21.8 | 109 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 90.8 | 90.8 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 83.2 | 83.2 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 46.3 | 116 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-9_Form2_FC0L_035S28_SJ2702800.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW3B-GW-51-55-01-011320**
**Sample Collection:**
**13-Jan-2020 17:25**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 21:00:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 113 | 2.96 (L) | 2:02 |
| **PFPeA** | | 9.01 | 1.48 (L) | 4:17 |
| **PFHxA** | | 15.1 | 0.740 (L) | 4:54 |
| **PFHpA** | | 13.3 | 0.740 (L) | 5:28 |
| **PFOA** | | 136 | 0.965 (S) | |
| **PFNA** | | 1.87 | 0.740 (L) | |
| **PFDA** | | 2.96 | 0.740 (L) | 7:37 |
| **PFUnA** | U | | 0.740 (L) | |
| **PFDoA** | U | | 0.740 (L) | |
| **PFTrDA** | U | | 0.740 (L) | |
| **PFTeDA** | U | | 0.740 (L) | |
| **PFBS** | | 4.94 | 0.740 (L) | 4:52 |
| **PFPeS** | | 4.93 | 0.740 (L) | 5:29 |
| **PFHxS** | | 13.8 | 0.740 (L) | |
| **PFHpS** | | 4.75 | 0.740 (L) | 7:14 |
| **PFOS** | | 561 | 0.740 (L) | |
| **PFNS** | U | | 0.740 (L) | |
| **PFDS** | U | | 0.740 (L) | |
| **PFDoS** | U | | 0.740 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.66 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | | 2.60 | 0.740 (L) | |
| **N-MeFOSA** | U | | 0.851 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.740 (L) | |
| **EtFOSAA** | J | 0.881 | 0.740 (L) | |
| **N-MeFOSE** | U | | 7.40 (L) | |
| **N-EtFOSE** | U | | 5.55 (L) | |
| **HFPO-DA** | U | | 2.96 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-10_Form1A_FC0L_035S29_SJ2702801.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW3B-GW-51-55-01-011320**
**Sample Collection:**
**13-Jan-2020 17:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 21:00:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.3 | 80.9 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 18.1 | 90.3 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.35 | 83.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.05 | 80.5 | 5:27 |
| **13C8-PFOA** | | 10.0 | 7.62 | 76.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.16 | 83.1 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.72 | 94.5 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.83 | 96.5 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.47 | 89.3 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.36 | 67.2 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.30 | 93.0 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.76 | 87.6 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.49 | 84.9 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 22.9 | 115 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 25.9 | 130 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 30.2 | 151 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.5 | 105 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.59 | 55.9 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.25 | 52.5 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.8 | 104 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 23.9 | 119 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 89.0 | 89.0 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 83.7 | 83.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 44.3 | 111 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-10_Form2_FC0L_035S29_SJ2702801.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**MW3B-GW-75-79-01-011420**
**Sample Collection:**
**14-Jan-2020 10:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32557-11 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.550 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 21:13:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 798 | 2.91 (L) | 2:01 |
| **PFPeA** | | 41.9 | 1.45 (L) | 4:17 |
| **PFHxA** | | 77.9 | 0.727 (L) | 4:54 |
| **PFHpA** | | 39.9 | 0.727 (L) | 5:28 |
| **PFOA** | | 368 | 1.12 (S) | |
| **PFNA** | | 2.11 | 0.727 (L) | |
| **PFDA** | | 2.28 | 0.727 (L) | 7:37 |
| **PFUnA** | U | | 0.727 (L) | |
| **PFDoA** | U | | 0.727 (L) | |
| **PFTrDA** | U | | 0.727 (L) | |
| **PFTeDA** | U | | 0.727 (L) | |
| **PFBS** | | 23.9 | 0.727 (L) | 4:52 |
| **PFPeS** | | 21.8 | 0.727 (L) | 5:29 |
| **PFHxS** | | 39.2 | 0.727 (L) | |
| **PFHpS** | | 8.12 | 0.727 (L) | 7:15 |
| **PFOS** | | 589 | 0.727 (L) | |
| **PFNS** | U | | 0.727 (L) | |
| **PFDS** | U | | 0.727 (L) | |
| **PFDoS** | U | | 0.727 (L) | |
| **4:2 FTS** | U | | 2.91 (L) | |
| **6:2 FTS** | U | | 2.62 (L) | |
| **8:2 FTS** | U | | 2.91 (L) | |
| **PFOSA** | | 1.94 | 0.727 (L) | |
| **N-MeFOSA** | U | | 0.837 (L) | |
| **N-EtFOSA** | U | | 1.82 (L) | |
| **MeFOSAA** | U | | 0.727 (L) | |
| **EtFOSAA** | J | 0.794 | 0.727 (L) | |
| **N-MeFOSE** | U | | 7.27 (L) | |
| **N-EtFOSE** | U | | 5.46 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 2.91 (L) | |
| **9Cl-PF3ONS** | U | | 2.91 (L) | |
| **11Cl-PF3OUdS** | U | | 2.91 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-11_Form1A_FC0L_035S30_SJ2702802.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-75-79-01-011420**
**Sample Collection:**
**14-Jan-2020 10:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32557-11 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.550 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 21:13:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 30.3 | 75.6 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.76 | 87.6 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.57 | 85.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.78 | 77.8 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.37 | 87.4 | 7:07 |
| **13C6-PFDA** | | 5.00 | 5.53 | 111 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 5.26 | 105 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 5.36 | 107 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.60 | 71.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 8.64 | 86.4 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 9.03 | 90.3 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.29 | 82.9 | 7:42 |
| **13C2-4:2 FTS** | | 20.0 | 24.3 | 121 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 25.8 | 129 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.8 | 144 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 10.0 | 100 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 6.28 | 62.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.89 | 58.9 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 22.7 | 114 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 21.9 | 109 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 86.5 | 86.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 80.7 | 80.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 46.4 | 116 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_L32557-11_Form2_FC0L_035S30_SJ2702802.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | WG71322-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 0.500 L |
| **Extraction Date:** | 07-Feb-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 07-Feb-2020 **Time:** 18:24:59 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_035 S: 18** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.20 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_WG71322-101_Form1A_FC0L_035S18_SJ2702790.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 18:24:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 18** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.7 | 81.7 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 17.7 | 88.5 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.08 | 80.8 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.96 | 79.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.52 | 75.2 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.14 | 82.8 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.50 | 90.1 | 7:38 |
| **13C7-PFUnA** | | 5.00 | 4.15 | 83.0 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 3.66 | 73.2 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 2.64 | 52.9 | 8:57 |
| **13C3-PFBS** | | 10.0 | 8.30 | 83.0 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.42 | 84.2 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.22 | 82.2 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 26.7 | 134 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 27.8 | 139 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 31.1 | 156 | 7:28 |
| **13C8-PFOSA** | | 10.0 | 8.92 | 89.2 | 8:50 |
| **D3-N-MeFOSA** | V | 10.0 | 4.60 | 46.0 | 10:09 |
| **D5-N-EtFOSA** | V | 10.0 | 4.75 | 47.5 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.8 | 104 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 18.3 | 91.6 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 74.7 | 74.7 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 68.1 | 68.1 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 42.5 | 106 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_WG71322-101_Form2_FC0L_035S18_SJ2702790.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 17:58:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_035 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 40.8 | 102 | 2:02 |
| **PFPeA** | | 20.0 | 19.8 | 99.2 | 4:17 |
| **PFHxA** | | 10.0 | 10.3 | 103 | 4:55 |
| **PFHpA** | | 10.0 | 9.65 | 96.5 | 5:28 |
| **PFOA** | | 10.0 | 9.94 | 99.4 | |
| **PFNA** | | 10.0 | 10.1 | 101 | |
| **PFDA** | | 10.0 | 9.75 | 97.5 | 7:37 |
| **PFUnA** | N | 10.0 | 12.1 | 121 | 7:55 |
| **PFDoA** | | 10.0 | 10.1 | 101 | 8:11 |
| **PFTrDA** | | 10.0 | 10.6 | 106 | 8:31 |
| **PFTeDA** | | 10.0 | 10.5 | 105 | 8:57 |
| **PFBS** | | 10.0 | 10.5 | 105 | 4:52 |
| **PFPeS** | | 10.0 | 10.6 | 106 | 5:30 |
| **PFHxS** | | 10.0 | 9.30 | 93.0 | |
| **PFHpS** | | 10.0 | 9.93 | 99.3 | 7:15 |
| **PFOS** | | 10.0 | 9.58 | 95.8 | |
| **PFNS** | | 10.0 | 10.5 | 105 | 8:00 |
| **PFDS** | | 10.0 | 9.30 | 93.0 | 8:18 |
| **PFDoS** | N | 10.0 | 7.02 | 70.2 | 9:08 |
| **4:2 FTS** | | 40.0 | 41.6 | 104 | 4:46 |
| **6:2 FTS** | | 36.1 | 38.6 | 107 | 5:57 |
| **8:2 FTS** | | 40.0 | 38.8 | 97.0 | 7:28 |
| **PFOSA** | | 10.0 | 10.6 | 106 | |
| **N-MeFOSA** | | 11.5 | 12.4 | 108 | |
| **N-EtFOSA** | | 25.0 | 24.1 | 96.5 | |
| **MeFOSAA** | | 10.0 | 9.44 | 94.4 | |
| **EtFOSAA** | | 10.0 | 10.4 | 104 | |
| **N-MeFOSE** | | 100 | 108 | 108 | |
| **N-EtFOSE** | | 75.0 | 78.9 | 105 | |
| **HFPO-DA** | | 38.0 | 41.2 | 108 | 5:05 |
| **ADONA** | | 40.0 | 32.4 | 81.0 | 5:43 |
| **9Cl-PF3ONS** | | 40.0 | 34.5 | 86.2 | 7:55 |
| **11Cl-PF3OUdS** | N | 40.0 | 28.8 | 72.0 | 8:33 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 17:58:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_035 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.0 | 85.1 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 95.8 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 8.70 | 87.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.26 | 82.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.15 | 81.5 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.32 | 86.3 | 7:08 |
| **13C6-PFDA** | | 5.00 | 4.68 | 93.5 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.03 | 80.7 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.48 | 89.5 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 2.91 | 58.2 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.62 | 96.2 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 9.35 | 93.5 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.99 | 89.9 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 27.2 | 136 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 29.3 | 147 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 30.9 | 154 | 7:28 |
| **13C8-PFOSA** | | 10.0 | 9.48 | 94.8 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.10 | 51.0 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.00 | 50.0 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 22.3 | 112 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 19.2 | 96.2 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 72.2 | 72.2 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 68.9 | 68.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 45.1 | 113 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_WG71322-102_Form8B_SJ2702784.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320 (MS)**
**Sample Collection:**
**13-Jan-2020 14:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Extraction Date:** | 07-Feb-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 07-Feb-2020 **Time:** 22:18:46 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_035 S: 36** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_035 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 73.6 | | 445 | 538 | 127 | 6.87 |
| **PFPeA** | | N/A | 36.8 | | 24.2 | 61.7 | 102 | 4.43 |
| **PFHxA** | | N/A | 18.4 | | 34.2 | 53.0 | 102 | 0.578 |
| **PFHpA** | | N/A | 18.4 | | 18.7 | 36.5 | 96.7 | 4.78 |
| **PFOA** | | N/A | 18.4 | | 220 | 231 | 58.2 | 2.88 |
| **PFNA** | | N/A | 18.4 | J | 1.22 | 20.1 | 103 | 5.09 |
| **PFDA** | | N/A | 18.4 | J | 0.859 | 19.3 | 100 | 0.931 |
| **PFUnA** | | N/A | 18.4 | U | | 16.7 | 90.7 | 34.0 |
| **PFDoA** | | N/A | 18.4 | U | | 20.0 | 108 | 2.36 |
| **PFTrDA** | | N/A | 18.4 | U | | 20.4 | 111 | 5.30 |
| **PFTeDA** | | N/A | 18.4 | U | | 20.2 | 110 | 4.75 |
| **PFBS** | | N/A | 18.4 | | 11.3 | 31.5 | 110 | 3.64 |
| **PFPeS** | | N/A | 18.4 | | 9.93 | 32.1 | 120 | 12.4 |
| **PFHxS** | | N/A | 18.4 | | 20.7 | 38.1 | 94.5 | 3.41 |
| **PFHpS** | | N/A | 18.4 | | 4.39 | 23.7 | 105 | 1.34 |
| **PFOS** | | N/A | 18.4 | | 307 | 318 | 61.0 | 0.431 |
| **PFNS** | | N/A | 18.4 | U | | 19.5 | 106 | 5.25 |
| **PFDS** | | N/A | 18.4 | U | | 17.7 | 96.2 | 1.89 |
| **PFDoS** | | N/A | 18.4 | U | | 15.2 | 82.5 | 4.23 |
| **4:2 FTS** | | N/A | 73.6 | U | | 83.4 | 113 | 11.8 |
| **6:2 FTS** | | N/A | 66.4 | U | | 73.3 | 110 | 1.90 |
| **8:2 FTS** | | N/A | 73.6 | U | | 73.1 | 99.3 | 5.26 |
| **PFOSA** | | N/A | 18.4 | U | | 20.8 | 113 | 6.32 |
| **N-MeFOSA** | | N/A | 21.2 | U | | 22.8 | 107 | 9.41 |
| **N-EtFOSA** | | N/A | 46.0 | U | | 38.5 | 83.7 | 8.30 |
| **MeFOSAA** | | N/A | 18.4 | U | | 18.6 | 101 | 0.357 |
| **EtFOSAA** | | N/A | 18.4 | U | | 18.3 | 99.4 | 0.681 |
| **N-MeFOSE** | | N/A | 184 | U | | 197 | 107 | 2.62 |
| **N-EtFOSE** | | N/A | 138 | U | | 146 | 106 | 5.36 |
| **HFPO-DA** | | N/A | 69.9 | U | | 81.3 | 116 | 6.61 |
| **ADONA** | | N/A | 73.6 | U | | 62.8 | 85.3 | 6.77 |
| **9Cl-PF3ONS** | | N/A | 73.6 | U | | 61.4 | 83.4 | 8.26 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 73.6 | U | | 50.2 | 68.2 | 1.48 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 10-Mar-2020 05:27:59; Application: XMLTransformer-1.18.1;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71322-103_L32557-8_Form8C.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320 (MS)**
**Sample Collection: 13-Jan-2020 14:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 22:18:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 538 | 2.94 (L) | 2:01 |
| **PFPeA** | | 61.7 | 1.47 (L) | 4:17 |
| **PFHxA** | | 53.0 | 0.736 (L) | 4:54 |
| **PFHpA** | | 36.5 | 0.736 (L) | 5:28 |
| **PFOA** | | 231 | 0.760 (S) | |
| **PFNA** | | 20.1 | 0.736 (L) | |
| **PFDA** | | 19.3 | 0.736 (L) | 7:37 |
| **PFUnA** | | 16.7 | 0.736 (L) | 7:55 |
| **PFDoA** | | 20.0 | 0.736 (L) | 8:11 |
| **PFTrDA** | | 20.4 | 0.736 (L) | 8:31 |
| **PFTeDA** | | 20.2 | 0.736 (L) | 8:57 |
| **PFBS** | | 31.5 | 0.736 (L) | 4:52 |
| **PFPeS** | | 32.1 | 0.736 (L) | 5:29 |
| **PFHxS** | | 38.1 | 0.736 (L) | |
| **PFHpS** | | 23.7 | 0.736 (L) | 7:15 |
| **PFOS** | | 318 | 0.736 (L) | |
| **PFNS** | | 19.5 | 0.736 (L) | 8:00 |
| **PFDS** | | 17.7 | 0.736 (L) | 8:18 |
| **PFDoS** | | 15.2 | 0.736 (L) | 9:08 |
| **4:2 FTS** | | 83.4 | 2.94 (L) | 4:46 |
| **6:2 FTS** | | 73.3 | 2.65 (L) | 5:57 |
| **8:2 FTS** | | 73.1 | 2.94 (L) | 7:27 |
| **PFOSA** | | 20.8 | 0.736 (L) | |
| **N-MeFOSA** | | 22.8 | 0.847 (L) | |
| **N-EtFOSA** | | 38.5 | 1.84 (L) | |
| **MeFOSAA** | | 18.6 | 0.736 (L) | |
| **EtFOSAA** | | 18.3 | 0.736 (L) | |
| **N-MeFOSE** | | 197 | 7.36 (L) | |
| **N-EtFOSE** | | 146 | 5.52 (L) | |
| **HFPO-DA** | | 81.3 | 2.94 (L) | 5:04 |
| **ADONA** | | 62.8 | 2.94 (L) | 5:43 |
| **9Cl-PF3ONS** | | 61.4 | 2.94 (L) | 7:55 |
| **11Cl-PF3OUdS** | | 50.2 | 2.94 (L) | 8:33 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_WG71322-103_Form1A_FC0L_035S36_SJ2702803.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320 (MS)**
**Sample Collection: 13-Jan-2020 14:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 22:18:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 24.7 | 61.7 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.6 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 9.19 | 91.9 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.96 | 89.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.66 | 86.6 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.16 | 83.1 | 7:07 |
| **13C6-PFDA** | | 5.00 | 4.52 | 90.4 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.36 | 87.2 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 3.64 | 72.8 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 2.79 | 55.8 | 8:57 |
| **13C3-PFBS** | | 10.0 | 9.10 | 91.0 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.56 | 85.6 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.50 | 85.0 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 23.2 | 116 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 26.7 | 134 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 28.9 | 144 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.09 | 90.9 | 8:50 |
| **D3-N-MeFOSA** | V | 10.0 | 4.55 | 45.5 | 10:09 |
| **D5-N-EtFOSA** | V | 10.0 | 4.55 | 45.5 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.7 | 108 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.4 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 78.0 | 78.0 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 71.8 | 71.8 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 46.2 | 116 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFC_FC_LC_PFAS_WG71322-103_Form2_FC0L_035S36_SJ2702803.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320 (MSD)**
**Sample Collection:**
**13-Jan-2020 14:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Extraction Date:** | 07-Feb-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 07-Feb-2020 **Time:** 22:31:52 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_035 S: 37** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_035 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 73.0 | | 445 | 503 | 79.0 | 6.87 |
| **PFPeA** | | N/A | 36.5 | | 24.2 | 59.1 | 95.6 | 4.43 |
| **PFHxA** | | N/A | 18.2 | | 34.2 | 52.7 | 101 | 0.578 |
| **PFHpA** | | N/A | 18.2 | | 18.7 | 34.8 | 88.2 | 4.78 |
| **PFOA** | | N/A | 18.2 | | 220 | 224 | 22.9 | 2.88 |
| **PFNA** | | N/A | 18.2 | J | 1.22 | 19.1 | 98.1 | 5.09 |
| **PFDA** | | N/A | 18.2 | J | 0.859 | 19.1 | 100 | 0.931 |
| **PFUnA** | | N/A | 18.2 | U | | 23.5 | 129 | 34.0 |
| **PFDoA** | | N/A | 18.2 | U | | 20.4 | 112 | 2.36 |
| **PFTrDA** | | N/A | 18.2 | U | | 21.5 | 118 | 5.30 |
| **PFTeDA** | | N/A | 18.2 | U | | 19.3 | 106 | 4.75 |
| **PFBS** | | N/A | 18.2 | | 11.3 | 30.4 | 105 | 3.64 |
| **PFPeS** | | N/A | 18.2 | | 9.93 | 28.3 | 101 | 12.4 |
| **PFHxS** | | N/A | 18.2 | | 20.7 | 36.8 | 88.4 | 3.41 |
| **PFHpS** | | N/A | 18.2 | | 4.39 | 24.0 | 108 | 1.34 |
| **PFOS** | | N/A | 18.2 | | 307 | 317 | 54.0 | 0.431 |
| **PFNS** | | N/A | 18.2 | U | | 20.5 | 112 | 5.25 |
| **PFDS** | | N/A | 18.2 | U | | 17.4 | 95.2 | 1.89 |
| **PFDoS** | | N/A | 18.2 | U | | 14.6 | 79.8 | 4.23 |
| **4:2 FTS** | | N/A | 73.0 | U | | 74.1 | 102 | 11.8 |
| **6:2 FTS** | | N/A | 65.8 | U | | 74.7 | 114 | 1.90 |
| **8:2 FTS** | | N/A | 73.0 | U | | 69.3 | 95.0 | 5.26 |
| **PFOSA** | | N/A | 18.2 | U | | 19.5 | 107 | 6.32 |
| **N-MeFOSA** | | N/A | 21.0 | U | | 20.7 | 98.7 | 9.41 |
| **N-EtFOSA** | | N/A | 45.6 | U | | 41.8 | 91.7 | 8.30 |
| **MeFOSAA** | | N/A | 18.2 | U | | 18.6 | 102 | 0.357 |
| **EtFOSAA** | | N/A | 18.2 | U | | 18.4 | 101 | 0.681 |
| **N-MeFOSE** | | N/A | 182 | U | | 192 | 105 | 2.62 |
| **N-EtFOSE** | | N/A | 137 | U | | 138 | 101 | 5.36 |
| **HFPO-DA** | | N/A | 69.3 | U | | 76.1 | 110 | 6.61 |
| **ADONA** | | N/A | 73.0 | U | | 58.7 | 80.5 | 6.77 |
| **9Cl-PF3ONS** | | N/A | 73.0 | U | | 56.6 | 77.5 | 8.26 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 73.0 | U | | 51.0 | 69.9 | 1.48 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 10-Mar-2020 05:27:59; Application: XMLTransformer-1.18.1;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71322-104_L32557-8_Form8E.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320 (MSD)**
**Sample Collection: 13-Jan-2020 14:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 22:31:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 503 | 2.92 (L) | 2:02 |
| **PFPeA** | | 59.1 | 1.46 (L) | 4:17 |
| **PFHxA** | | 52.7 | 0.730 (L) | 4:54 |
| **PFHpA** | | 34.8 | 0.730 (L) | 5:28 |
| **PFOA** | | 224 | 0.730 (L) | |
| **PFNA** | | 19.1 | 0.730 (L) | |
| **PFDA** | | 19.1 | 0.730 (L) | 7:37 |
| **PFUnA** | | 23.5 | 0.730 (L) | 7:55 |
| **PFDoA** | | 20.4 | 0.730 (L) | 8:11 |
| **PFTrDA** | | 21.5 | 0.730 (L) | 8:31 |
| **PFTeDA** | | 19.3 | 0.730 (L) | 8:57 |
| **PFBS** | | 30.4 | 0.730 (L) | 4:52 |
| **PFPeS** | | 28.3 | 0.730 (L) | 5:29 |
| **PFHxS** | | 36.8 | 0.730 (L) | |
| **PFHpS** | | 24.0 | 0.730 (L) | 7:15 |
| **PFOS** | | 317 | 0.730 (L) | |
| **PFNS** | | 20.5 | 0.730 (L) | 8:00 |
| **PFDS** | | 17.4 | 0.730 (L) | 8:18 |
| **PFDoS** | | 14.6 | 0.730 (L) | 9:08 |
| **4:2 FTS** | | 74.1 | 2.92 (L) | 4:46 |
| **6:2 FTS** | | 74.7 | 2.63 (L) | 5:57 |
| **8:2 FTS** | | 69.3 | 2.92 (L) | 7:27 |
| **PFOSA** | | 19.5 | 0.730 (L) | |
| **N-MeFOSA** | | 20.7 | 0.839 (L) | |
| **N-EtFOSA** | | 41.8 | 1.82 (L) | |
| **MeFOSAA** | | 18.6 | 0.730 (L) | |
| **EtFOSAA** | | 18.4 | 0.730 (L) | |
| **N-MeFOSE** | | 192 | 7.30 (L) | |
| **N-EtFOSE** | | 138 | 5.47 (L) | |
| **HFPO-DA** | | 76.1 | 2.92 (L) | 5:04 |
| **ADONA** | | 58.7 | 2.92 (L) | 5:43 |
| **9Cl-PF3ONS** | | 56.6 | 2.92 (L) | 7:55 |
| **11Cl-PF3OUdS** | | 51.0 | 2.92 (L) | 8:33 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFC_FC_LC_PFAS_WG71322-104_Form1A_FC0L_035S37_SJ2702804.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**MW3B-GW-31-35-03-011320 (MSD)**
**Sample Collection: 13-Jan-2020 14:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71322-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 17-Jan-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 07-Feb-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 07-Feb-2020 **Time:** 22:31:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_035 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_035 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_035 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.2 | 85.6 | 2:01 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 104 | 4:17 |
| **13C5-PFHxA** | | 10.0 | 9.42 | 94.2 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.20 | 82.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.19 | 81.9 | 6:17 |
| **13C9-PFNA** | | 5.00 | 4.48 | 89.5 | 7:07 |
| **13C6-PFDA** | | 5.00 | 5.75 | 115 | 7:37 |
| **13C7-PFUnA** | | 5.00 | 4.35 | 87.0 | 7:55 |
| **13C2-PFDoA** | | 5.00 | 4.92 | 98.4 | 8:11 |
| **13C2-PFTeDA** | | 5.00 | 3.66 | 73.2 | 8:57 |
| **13C3-PFBS** | | 10.0 | 8.71 | 87.1 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.57 | 85.7 | 6:23 |
| **13C8-PFOS** | | 10.0 | 8.33 | 83.3 | 7:43 |
| **13C2-4:2 FTS** | | 20.0 | 21.8 | 109 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 25.4 | 127 | 5:57 |
| **13C2-8:2 FTS** | | 20.0 | 29.4 | 147 | 7:27 |
| **13C8-PFOSA** | | 10.0 | 9.62 | 96.2 | 8:50 |
| **D3-N-MeFOSA** | | 10.0 | 5.09 | 50.9 | 10:09 |
| **D5-N-EtFOSA** | V | 10.0 | 4.72 | 47.2 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 18.0 | 90.2 | 7:40 |
| **D5-EtFOSAA** | | 20.0 | 19.2 | 96.1 | 7:48 |
| **d7-NMe-FOSE** | | 100 | 76.3 | 76.3 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 74.9 | 74.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 49.0 | 122 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

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Report Filename: PFC_FC_LC_PFAS_WG71322-104_Form2_FC0L_035S37_SJ2702804.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| COMPOUND | LAB FLAG [1] | PERCENT RECOVERY (%) CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | CS7 | CS8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **PFBA** | | | 106 | 106 | 101 | 99.3 | 93.4 | 95.7 | 99.1 | |
| **PFPeA** | | | 103 | 104 | 103 | 100 | 93.3 | 97.4 | 99.5 | |
| **PFHxA** | | | 106 | 118 | 99.2 | 92.8 | 92.8 | 94.1 | 96.4 | |
| **PFHpA** | | | 117 | 111 | 103 | 94.5 | 88.1 | 87.9 | 97.8 | |
| **PFOA** | | | 118 | 108 | 107 | 95.9 | 90.0 | 88.9 | 92.8 | |
| **PFNA** | | | 105 | 103 | 95.1 | 103 | 99.5 | 95.7 | 98.5 | |
| **PFDA** | | | 99.1 | 98.3 | 106 | 113 | 78.6 | 107 | 99.2 | |
| **PFUnA** | | | 104 | 98.1 | 98.8 | 106 | 97.6 | 99.8 | 95.7 | |
| **PFDoA** | | | 94.3 | 98.3 | 119 | 118 | 101 | 93.7 | 75.6 | |
| **PFTrDA** | | | 118 | 102 | 104 | 104 | 87.6 | 84.7 | | |
| **PFTeDA** | | | 114 | 111 | 106 | 111 | 96.0 | 87.8 | 74.4 | |
| **PFBS** | | | 101 | 96.8 | 101 | 104 | 92.7 | 101 | 103 | |
| **PFPeS** | | | 104 | 100 | 103 | 99.0 | 96.8 | 104 | 91.5 | |
| **PFHxS** | | | 111 | 103 | 97.0 | 99.2 | 90.7 | 95.4 | 104 | |
| **PFHpS** | | | 97.9 | 97.1 | 99.0 | 98.4 | 97.0 | 110 | 101 | |
| **PFOS** | | | 93.3 | 94.7 | 105 | 90.4 | 93.8 | 109 | 115 | |
| **PFNS** | | | 97.7 | 106 | 105 | 82.0 | 99.6 | 108 | 103 | |
| **PFDS** | | | 101 | 108 | 96.6 | 105 | 85.4 | 101 | 102 | |
| **PFDoS** | | | 98.2 | 92.4 | 102 | 96.1 | 93.4 | 106 | 111 | |
| **4:2 FTS** | | | 113 | 104 | 107 | 108 | 95.7 | 97.0 | 76.7 | |
| **6:2 FTS** | | | 114 | 96.8 | 113 | 114 | 101 | 88.6 | 72.2 | |
| **8:2 FTS** | | | 99.5 | 114 | 111 | 104 | 89.0 | 82.6 | | |
| **PFOSA** | | | 103 | 100 | 98.9 | 100 | 98.7 | 97.3 | 102 | |
| **N-MeFOSA** | | | 97.5 | 106 | 115 | 108 | 100 | 95.6 | 78.7 | |
| **N-EtFOSA** | | | 89.3 | 105 | 104 | 101 | 94.6 | 102 | 104 | |
| **MeFOSAA** | | | 107 | 96.9 | 96.9 | 113 | 80.2 | 118 | 87.7 | |
| **EtFOSAA** | | | 123 | 93.1 | 114 | 83.4 | 83.0 | 95.3 | 109 | |
| **N-MeFOSE** | | | 102 | 104 | 105 | 102 | 98.7 | 97.4 | 90.4 | |
| **N-EtFOSE** | | | 101 | 103 | 104 | 106 | 97.9 | 95.8 | 91.6 | |
| **HFPO-DA** | | | 101 | 112 | 105 | 105 | 99.8 | 95.4 | 82.2 | |
| **ADONA** | | | 92.0 | 103 | 103 | 103 | 90.3 | 107 | 102 | |
| **9Cl-PF3ONS** | | | 92.9 | 112 | 106 | 113 | 98.4 | 92.3 | 85.8 | |
| **11Cl-PF3OUdS** | | | 95.6 | 106 | 103 | 99.8 | 90.6 | 97.3 | 108 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFOA_FC_LC_14-Jan-2020_FC0L__Form3A_GS86201.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.1 | 103 | 101 | 99.0 | 100 | 99.5 | 98.9 | |
| **13C5-PFPeA** | | | 98.5 | 106 | 111 | 105 | 108 | 92.0 | 79.5 | |
| **13C5-PFHxA** | | | 100 | 99.0 | 101 | 107 | 103 | 96.7 | 93.8 | |
| **13C4-PFHpA** | | | 94.1 | 106 | 98.7 | 98.4 | 106 | 105 | 92.1 | |
| **13C8-PFOA** | | | 93.2 | 105 | 97.8 | 98.7 | 101 | 106 | 98.5 | |
| **13C9-PFNA** | | | 96.5 | 104 | 111 | 96.6 | 91.2 | 97.2 | 104 | |
| **13C6-PFDA** | | | 99.7 | 101 | 85.0 | 94.1 | 109 | 120 | 91.7 | |
| **13C7-PFUnA** | | | 105 | 119 | 112 | 101 | 85.2 | 77.9 | | |
| **13C2-PFDoA** | | | 89.7 | 100 | 90.1 | 92.9 | 97.0 | 119 | 111 | |
| **13C2-PFTeDA** | | | 88.7 | 88.7 | 91.6 | 83.5 | 89.1 | 129 | 130 | |
| **13C3-PFBS** | | | 104 | 110 | 102 | 105 | 107 | 91.2 | 81.4 | |
| **13C3-PFHxS** | | | 99.6 | 105 | 97.7 | 98.1 | 103 | 97.5 | 99.1 | |
| **13C8-PFOS** | | | 103 | 98.6 | 115 | 97.5 | 94.6 | 96.9 | 94.5 | |
| **13C2-4:2 FTS** | | | 109 | 117 | 108 | 106 | 94.0 | 78.0 | 87.6 | |
| **13C2-6:2 FTS** | | | 99.6 | 107 | 98.8 | 97.3 | 96.7 | 92.8 | 108 | |
| **13C2-8:2 FTS** | | | 93.1 | 96.9 | 90.3 | 93.7 | 101 | 92.4 | 132 | |
| **13C8-PFOSA** | | | 93.6 | 95.5 | 105 | 86.5 | 82.5 | 104 | 132 | |
| **D3-N-MeFOSA** | | | 94.7 | 95.8 | 112 | 93.7 | 88.7 | 115 | | |
| **D5-N-EtFOSA** | | | 91.3 | 95.0 | 113 | 93.0 | 88.0 | 105 | 116 | |
| **D3-MeFOSAA** | | | 96.3 | 92.1 | 107 | 75.2 | 102 | 88.3 | 140 | |
| **D5-EtFOSAA** | | | 91.7 | 95.7 | 112 | 98.4 | 92.1 | 110 | 99.8 | |
| **d7-NMe-FOSE** | | | 89.0 | 94.7 | 117 | 94.0 | 86.4 | 102 | 117 | |
| **d9-NEt-FOSE** | | | 90.4 | 95.2 | 115 | 92.9 | 85.3 | 102 | 119 | |
| **13C3-HFPO-DA** | | | 111 | 108 | 113 | 102 | 108 | 85.1 | 72.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 2:01 | 2:01 | 2:01 | 2:01 | 2:02 | 2:01 | 2:01 | | 2:01 |
| **PFPeA** | | | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | | 4:15 |
| **PFHxA** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFHpA** | | | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | | 5:24 |
| **PFOA** | | | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | | 6:14 |
| **PFNA** | | | 7:04 | 7:03 | 7:04 | 7:04 | 7:04 | 7:04 | 7:03 | | 7:04 |
| **PFDA** | | | 7:33 | 7:33 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **PFUnA** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | 7:52 |
| **PFDoA** | | | 8:09 | 8:08 | 8:08 | 8:09 | 8:08 | 8:08 | 8:08 | | 8:08 |
| **PFTrDA** | | | 8:30 | 8:29 | 8:30 | 8:30 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | | 8:56 |
| **PFBS** | | | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | | 4:49 |
| **PFPeS** | | | 5:26 | 5:26 | 5:26 | 5:27 | 5:26 | 5:26 | 5:26 | | 5:26 |
| **PFHxS** | | | 6:21 | 6:20 | 6:21 | 6:21 | 6:21 | 6:20 | 6:20 | | 6:21 |
| **PFHpS** | | | 7:10 | 7:10 | 7:10 | 7:11 | 7:10 | 7:11 | 7:10 | | 7:10 |
| **PFOS** | | | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | | 7:39 |
| **PFNS** | | | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | 7:57 | | 7:57 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | 9:07 | | 9:07 |
| **4:2 FTS** | | | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | | 4:43 |
| **6:2 FTS** | | | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | | 5:54 |
| **8:2 FTS** | | | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | | 8:46 |
| **N-MeFOSA** | | | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | | 10:06 |
| **N-EtFOSA** | | | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | 10:24 | | 10:24 |
| **MeFOSAA** | | | 7:36 | 7:36 | 7:36 | 7:37 | 7:36 | 7:36 | 7:36 | | 7:36 |
| **EtFOSAA** | | | 7:45 | 7:44 | 7:44 | 7:45 | 7:44 | 7:44 | 7:44 | | 7:44 |
| **N-MeFOSE** | | | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | 9:59 | | 9:59 |
| **N-EtFOSE** | | | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | 10:17 | | 10:17 |
| **HFPO-DA** | | | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | | 5:01 |
| **ADONA** | | | 5:40 | 5:39 | 5:40 | 5:40 | 5:39 | 5:40 | 5:39 | | 5:40 |
| **9Cl-PF3ONS** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | 7:52 |
| **11Cl-PF3OUdS** | | | 8:32 | 8:32 | 8:32 | 8:32 | 8:32 | 8:32 | 8:31 | | 8:32 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFOA_FC_LC_14-Jan-2020_FC0L__Form3C_GS86201.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 14-Jan-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_002 S: 24
**CS2 Data Filename:** FC0L_002 S: 25
**CS3 Data Filename:** FC0L_002 S: 26
**CS4 Data Filename:** FC0L_002 S: 27
**CS5 Data Filename:** FC0L_002 S: 28
**CS6 Data Filename:** FC0L_002 S: 29
**CS7 Data Filename:** FC0L_002 S: 30
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 2:01 | 2:01 | 2:01 | 2:01 | 2:01 | 2:00 | 2:00 | | 2:01 |
| **13C5-PFPeA** | | | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | 4:15 | | 4:15 |
| **13C5-PFHxA** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C4-PFHpA** | | | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | 5:24 | | 5:24 |
| **13C8-PFOA** | | | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:14 | 6:13 | | 6:14 |
| **13C9-PFNA** | | | 7:03 | 7:03 | 7:03 | 7:04 | 7:03 | 7:04 | 7:03 | | 7:03 |
| **13C6-PFDA** | | | 7:33 | 7:33 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | 7:52 | | | 7:52 |
| **13C2-PFDoA** | | | 8:09 | 8:08 | 8:08 | 8:09 | 8:08 | 8:08 | 8:08 | | 8:08 |
| **13C2-PFTeDA** | | | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | 8:56 | | 8:56 |
| **13C3-PFBS** | | | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | 4:49 | | 4:49 |
| **13C3-PFHxS** | | | 6:20 | 6:20 | 6:20 | 6:21 | 6:20 | 6:20 | 6:20 | | 6:20 |
| **13C8-PFOS** | | | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | 7:39 | | 7:39 |
| **13C2-4:2 FTS** | | | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | 4:43 | | 4:43 |
| **13C2-6:2 FTS** | | | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | 5:54 | | 5:54 |
| **13C2-8:2 FTS** | | | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | 8:46 | | 8:46 |
| **D3-N-MeFOSA** | | | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | 10:06 | | | 10:06 |
| **D5-N-EtFOSA** | | | 10:23 | 10:24 | 10:24 | 10:24 | 10:23 | 10:24 | 10:23 | | 10:24 |
| **D3-MeFOSAA** | | | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | 7:36 | | 7:36 |
| **D5-EtFOSAA** | | | 7:44 | 7:44 | 7:44 | 7:45 | 7:44 | 7:44 | 7:44 | | 7:44 |
| **d7-NMe-FOSE** | | | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | 9:58 | | 9:58 |
| **d9-NEt-FOSE** | | | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | 10:16 | | 10:16 |
| **13C3-HFPO-DA** | | | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | 5:01 | | 5:01 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_035 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 07-Feb-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 17:06:53 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:02 | 40.0 | 40.7 | 102 |
| **PFPeA** | | 4:18 | 20.0 | 20.1 | 101 |
| **PFHxA** | | 4:55 | 10.0 | 9.83 | 98.3 |
| **PFHpA** | | 5:28 | 10.0 | 9.29 | 92.9 |
| **PFOA** | | 6:17 | 10.0 | 10.6 | 106 |
| **PFNA** | | 7:08 | 10.0 | 10.2 | 102 |
| **PFDA** | | 7:38 | 10.0 | 9.98 | 99.8 |
| **PFUnA** | | 7:55 | 10.0 | 9.83 | 98.3 |
| **PFDoA** | | 8:11 | 10.0 | 11.0 | 110 |
| **PFTrDA** | | 8:31 | 10.0 | 11.8 | 118 |
| **PFTeDA** | | 8:57 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:52 | 10.0 | 10.2 | 102 |
| **PFPeS** | | 5:30 | 10.0 | 11.0 | 110 |
| **PFHxS** | | 6:24 | 10.0 | 9.56 | 95.6 |
| **PFHpS** | | 7:15 | 10.0 | 10.2 | 102 |
| **PFOS** | | 7:43 | 10.0 | 9.93 | 99.3 |
| **PFNS** | | 8:00 | 10.0 | 8.51 | 85.1 |
| **PFDS** | | 8:18 | 10.0 | 10.8 | 108 |
| **PFDoS** | | 9:08 | 10.0 | 10.0 | 100 |
| **4:2 FTS** | | 4:46 | 40.0 | 42.9 | 107 |
| **6:2 FTS** | | 5:58 | 36.0 | 38.5 | 107 |
| **8:2 FTS** | | 7:28 | 40.0 | 40.6 | 101 |
| **PFOSA** | | 8:51 | 10.0 | 10.6 | 106 |
| **N-MeFOSA** | | 10:10 | 11.5 | 12.7 | 110 |
| **N-EtFOSA** | | 10:28 | 25.0 | 27.3 | 109 |
| **MeFOSAA** | | 7:40 | 10.0 | 8.64 | 86.4 |
| **EtFOSAA** | | 7:48 | 10.0 | 9.03 | 90.3 |
| **N-MeFOSE** | | 10:02 | 100 | 106 | 106 |
| **N-EtFOSE** | | 10:21 | 75.0 | 75.9 | 101 |
| **HFPO-DA** | | 5:05 | 40.0 | 44.6 | 112 |
| **ADONA** | | 5:43 | 40.0 | 36.3 | 90.7 |
| **9Cl-PF3ONS** | | 7:55 | 40.0 | 30.3 | 75.6 |
| **11Cl-PF3OUdS** | | 8:33 | 40.0 | 38.3 | 95.6 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_035 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 07-Feb-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 17:06:53 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:02 | 40.0 | 38.6 | 96.6 |
| **13C5-PFPeA** | | 4:17 | 20.0 | 21.1 | 105 |
| **13C5-PFHxA** | | 4:54 | 10.0 | 9.98 | 99.8 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 9.69 | 96.9 |
| **13C8-PFOA** | | 6:17 | 10.0 | 9.25 | 92.5 |
| **13C9-PFNA** | | 7:08 | 5.00 | 5.02 | 100 |
| **13C6-PFDA** | | 7:38 | 5.00 | 4.99 | 99.8 |
| **13C7-PFUnA** | | 7:55 | 5.00 | 5.07 | 101 |
| **13C2-PFDoA** | | 8:11 | 5.00 | 4.98 | 99.6 |
| **13C2-PFTeDA** | | 8:57 | 5.00 | 4.05 | 81.0 |
| **13C3-PFBS** | | 4:52 | 9.18 | 9.62 | 105 |
| **13C3-PFHxS** | | 6:23 | 10.0 | 9.98 | 99.8 |
| **13C8-PFOS** | | 7:43 | 10.0 | 9.35 | 93.5 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 30.5 | 153 |
| **13C2-6:2 FTS** | | 5:57 | 20.0 | 30.6 | 153 |
| **13C2-8:2 FTS** | | 7:28 | 20.0 | 31.1 | 156 |
| **13C8-PFOSA** | | 8:51 | 10.0 | 11.2 | 112 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 8.27 | 82.7 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 7.85 | 78.5 |
| **D3-MeFOSAA** | | 7:40 | 20.0 | 23.7 | 119 |
| **D5-EtFOSAA** | | 7:48 | 20.0 | 23.3 | 117 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 98.3 | 98.3 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 95.6 | 95.6 |
| **13C3-HFPO-DA** | | 5:05 | 40.0 | 46.9 | 117 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1; Report Filename: PFOA_FC_LC_FC0L_035S12__Form4B_SJ2702777.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_035 S: 38 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 07-Feb-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 22:44:49 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:03 | 40.0 | 40.8 | 102 |
| **PFPeA** | | 4:18 | 20.0 | 20.1 | 100 |
| **PFHxA** | | 4:55 | 10.0 | 10.1 | 101 |
| **PFHpA** | | 5:28 | 10.0 | 9.44 | 94.4 |
| **PFOA** | | 6:17 | 10.0 | 10.0 | 100 |
| **PFNA** | | 7:08 | 10.0 | 9.80 | 98.0 |
| **PFDA** | | 7:37 | 10.0 | 9.41 | 94.1 |
| **PFUnA** | | 7:55 | 10.0 | 9.72 | 97.2 |
| **PFDoA** | | 8:11 | 10.0 | 10.8 | 108 |
| **PFTrDA** | | 8:31 | 10.0 | 10.6 | 106 |
| **PFTeDA** | | 8:57 | 10.0 | 10.5 | 105 |
| **PFBS** | | 4:52 | 10.0 | 9.96 | 99.6 |
| **PFPeS** | | 5:30 | 10.0 | 11.4 | 114 |
| **PFHxS** | | 6:24 | 10.0 | 9.69 | 96.9 |
| **PFHpS** | | 7:15 | 10.0 | 10.0 | 100 |
| **PFOS** | | 7:43 | 10.0 | 10.1 | 101 |
| **PFNS** | | 8:00 | 10.0 | 11.1 | 111 |
| **PFDS** | | 8:18 | 10.0 | 9.78 | 97.8 |
| **PFDoS** | | 9:08 | 10.0 | 9.95 | 99.5 |
| **4:2 FTS** | | 4:46 | 40.0 | 42.7 | 107 |
| **6:2 FTS** | | 5:58 | 36.0 | 38.0 | 106 |
| **8:2 FTS** | | 7:27 | 40.0 | 36.8 | 92.1 |
| **PFOSA** | | 8:51 | 10.0 | 10.6 | 106 |
| **N-MeFOSA** | | 10:10 | 11.5 | 13.0 | 113 |
| **N-EtFOSA** | | 10:28 | 25.0 | 25.2 | 101 |
| **MeFOSAA** | | 7:40 | 10.0 | 9.54 | 95.4 |
| **EtFOSAA** | | 7:48 | 10.0 | 9.35 | 93.5 |
| **N-MeFOSE** | | 10:02 | 100 | 106 | 106 |
| **N-EtFOSE** | | 10:20 | 75.0 | 76.9 | 103 |
| **HFPO-DA** | | 5:04 | 40.0 | 43.0 | 108 |
| **ADONA** | | 5:43 | 40.0 | 33.3 | 83.3 |
| **9Cl-PF3ONS** | | 7:55 | 40.0 | 33.3 | 83.2 |
| **11Cl-PF3OUdS** | | 8:33 | 40.0 | 34.2 | 85.5 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1; Report Filename: PFOA_FC_LC_FC0L_035S38__Form4A_SJ2702805.html; Workgroup: WG71322; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_035 S: 38 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 07-Feb-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 22:44:49 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:02 | 40.0 | 38.4 | 95.9 |
| **13C5-PFPeA** | | 4:17 | 20.0 | 21.1 | 106 |
| **13C5-PFHxA** | | 4:54 | 10.0 | 9.79 | 97.9 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.1 | 101 |
| **13C8-PFOA** | | 6:17 | 10.0 | 9.60 | 96.0 |
| **13C9-PFNA** | | 7:07 | 5.00 | 4.86 | 97.2 |
| **13C6-PFDA** | | 7:37 | 5.00 | 5.00 | 99.9 |
| **13C7-PFUnA** | | 7:55 | 5.00 | 4.81 | 96.3 |
| **13C2-PFDoA** | | 8:11 | 5.00 | 4.62 | 92.5 |
| **13C2-PFTeDA** | | 8:57 | 5.00 | 3.71 | 74.3 |
| **13C3-PFBS** | | 4:52 | 9.18 | 9.88 | 108 |
| **13C3-PFHxS** | | 6:24 | 10.0 | 9.92 | 99.2 |
| **13C8-PFOS** | | 7:43 | 10.0 | 9.16 | 91.6 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 28.2 | 141 |
| **13C2-6:2 FTS** | | 5:57 | 20.0 | 29.5 | 147 |
| **13C2-8:2 FTS** | | 7:27 | 20.0 | 33.0 | 165 |
| **13C8-PFOSA** | | 8:50 | 10.0 | 9.48 | 94.8 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 7.79 | 77.9 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 7.93 | 79.3 |
| **D3-MeFOSAA** | | 7:40 | 20.0 | 23.6 | 118 |
| **D5-EtFOSAA** | | 7:48 | 20.0 | 22.0 | 110 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 94.4 | 94.4 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 90.1 | 90.1 |
| **13C3-HFPO-DA** | | 5:05 | 40.0 | 52.8 | 132 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 10-Mar-2020 05:23:32; Application: XMLTransformer-1.18.1;
Report Filename: PFOA_FC_LC_FC0L_035S38__Form4B_SJ2702805.html; Workgroup: WG71322; Design ID: 3769 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| HBCDD | alpha-hexabromocyclododecane (a-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | beta-hexabromocyclododecane (b-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | gamma-hexabromocyclododecane (g-HBCDD) | SGS AXYS MLA-070 | MLA-070 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |

# Accreditation Scope

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file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 98 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | | | | | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | | | | | | | Y | Y | Y | | | | | | | Y | Y | Y | Y | | | | | | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | | | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| TBBPA | Tetrabromobisphenol A | SGS AXYS MLA-079 | MLA-079 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 48

| | | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

**Legend**

| | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forming foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| HBCDD | Hexabromocyclododecane |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TBBPA | Tetrabromobisphenol A |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP Certificate ADE-1861

ilac-MRA

CALA Testing Accreditation No. A 2637

ilac-MRA

SGS AXYS

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SGS AXYS Client No.: 4095

Client Address: Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN, US, 55155-4194

The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG71978**

**Analysis WG71801**

## 27 March 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**

**4095**: L32758-1 to -10

**PROJECT NAME: P1007/60608807**
**WORK ORDER #: 3000025335**

**27 March 2020**

## NARRATIVE

This narrative describes the analysis of ten aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received on the 4th of March, 2020. Details of sample conditions upon receipt are provided on the Sample Receiving Record form included in the sample documentation section of this data package. The sample was stored at -20˚C in dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with ***SGS AXYS Method MLA-110: Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

The field and QC samples (as a laboratory procedural blank and two lab-generated reference samples known as the Ongoing Precision and Recovery (OPR)) were analyzed in a batch designated as WG71801. Composition of the batch is shown on the Correlation Table included in this data package.

Canadian Springs Water was used as the matrix to prepare the laboratory procedural blank, OPR and OPR Duplicate samples (SGS AXYS IDs: WG71801-101 to -103, respectively).

Approximately 500mL of each sample was accurately weighed and spiked with labelled quantification standards. The sample was then extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking the sample with labeled recovery (internal) standards, the extract was analyzed by UHPLC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard. Mean relative response factors (RRF), determined from the multi-level calibration series are used to convert raw peak areas in sample chromatograms to final concentrations.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard analyzed in the initial calibration (CS1), or the sample specific detection limits (SDL), whichever was greater.

**REPORTING CONVENTIONS**

The SGS AXYS contract number assigned for internal tracking was 4095. The sample was assigned a unique laboratory identifier of L32758-XX where 'X' is a numeral. All data reports reference this unique SGS AXYS ID plus the client's sample identifier. To assist with locating data, a table correlating SGS AXYS ID with the client sample number is included in this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample's extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix and was combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair

The following laboratory qualifier flags were used in this data package:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the sample detection limit (SDL) or lowest method calibration limit (LMCL); whichever was higher
U = identified a compound that was not detected
V = surrogate recovery is not within method control limits

Result were reported with concentration units of nanograms per liter (ng/L). Concentration and detection limits are provided to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The field and QC samples analyzed in an analysis batch were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected. Sample data should be evaluated with consideration of the procedural blank results.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and cleanup procedures.
- All initial calibration, calibration verifications, OPRs, laboratory procedural blank, labeled compound recovery and precision specifications were met with the following exceptions:

For the OPR sample (SGS AXYS ID: WG71801-102), the percent recoveries for PFDS and PFNS were below the client specific lower method criteria limit and flagged with an 'N'. The same results met the SGS AXYS method criteria limits. Other data was not considered to be affected.

For the 8099 6432 5990 sample (SGS AXYS ID: L32758-1), the percent recovery for the surrogate compound D3-N-MeFOSA (49.2%) was marginally below the client specific lower method criteria limit (50%) and was flagged with a 'V'. As the isotope dilution method of quantification produces data that is recovery corrected, these variances from method criteria were deemed to not affect the quantification of the target analytes. Percent surrogate recoveries are used as general method performance indicator only.

For the OPR and OPR DUP samples (SGS AXYS IDs: WG71801-102 and -103), the precision (expressed as the relative percent difference; RPD) was above both the client specific and SGS AXYS method criteria limits for the target analyte PFNS as 48.9% RPD. Overall, good precision was demonstrated for all most target analytes.

**ANALYTICAL DISCUSSION**

No analytical difficulties were encountered.

**DATA PACKAGE**

This data package is assigned a unique identifier, DPWG71978, as shown on the title page of the data package. Included in the data package after this narrative are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Andrew Porat — 27-March-2020

Signed: Andrew Porat; Data Validation Chemist — Date Signed

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**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 06**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue and AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] |
|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 530-2100 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 |
| Perfluoroalkyl sulfonates | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Fluorotelomer sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | 40 |
| Perfluorooctane sulfonamides | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamide ethanols | 8 | 5300 | 0.8 | 1.6 | 2.0 | 100 |
| Per- and polyfluoroether carboxylates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |
| Ether sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |

1 Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

2 A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

3 A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

4 A maximum of 2 g of tissue may be analyzed.

5 A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. Other AFFF products such as fluoroprotein foams maybe be analyzed using this method, but need special handling. Consult product Safety Data Sheets (SDS) and other information before confirming. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS.

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Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

### Perfluorooctane sulfonamidoacetic acids

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)


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**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)

Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction

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(SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**List of Surrogate and Recovery Standards**

| Surrogate Standards | Recovery Standards |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_4$-PFOA |
| $^{13}C_4$-PFHpA | $^{13}C_5$-PFNA |
| $^{13}C_8$-PFOA | $^{13}C_2$-PFDA |
| $^{13}C_9$-PFNA | $^{18}O_2$-PFHxS |
| $^{13}C_6$-PFDA | $^{13}C_4$-PFOS |
| $^{13}C_7$-PFUnA | |
| $^{13}C_2$-PFDoA | |
| $^{13}C_2$-PFTeDA | |
| $^{13}C_3$-PFBS | |
| $^{13}C_3$-PFHxS | |
| $^{13}C_8$-PFOS | |
| $^{13}C_2$-4:2 FTS | |
| $^{13}C_2$-6:2 FTS | |

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| | |
|---|---|
| $^{13}C_2$-8:2 FTS | |
| $^{13}C_8$-PFOSA | |
| $D_3$-N-MeFOSA | |
| $D_5$-N-EtFOSA | |
| $D_3$-N-MeFOSAA | |
| $D_5$-N-EtFOSAA | |
| $D_7$-N-MeFOSE | |
| $D_9$-N-EtFOSE | |
| $^{13}C_3$-HFPO-DA | |

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where} \quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes and Quantification References

| Target analytes | Quantified using |
|---|---|
| PFBA | $^{13}C_4$-PFBA |
| PFPeA | $^{13}C_5$-PFPeA |
| PFHxA | $^{13}C_5$-PFHxA |
| PFHpA | $^{13}C_4$-PFHpA |
| PFOA | $^{13}C_8$-PFOA |
| PFNA | $^{13}C_9$-PFNA |
| PFDA | $^{13}C_6$-PFDA |
| PFUnA | $^{13}C_7$-PFUnA |
| PFDoA | $^{13}C_2$-PFDoA |
| PFTrDA | $^{13}C_2$-PFTeDA |
| PFTeDA | $^{13}C_2$-PFTeDA |
| PFBS | $^{13}C_3$-PFBS [1] |
| PFPeS | $^{13}C_3$-PFHxS |
| PFHxS | $^{13}C_3$-PFHxS |
| PFHpS | $^{13}C_8$-PFOS |
| PFOS | $^{13}C_8$-PFOS |
| PFNS | $^{13}C_8$-PFOS |
| PFDS | $^{13}C_8$-PFOS |
| PFDoS | $^{13}C_8$-PFOS |
| 4:2 FTS | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | $^{13}C_2$-8:2 FTS |
| PFOSA | $^{13}C_8$-PFOSA |
| N-MeFOSA | $D_3$-N-MeFOSA |
| N-EtFOSA | $D_5$-N-EtFOSA |
| N-MeFOSAA | $D_3$-N-MeFOSAA |
| N-EtFOSAA | $D_5$-N-EtFOSAA |
| N-MeFOSE | $D_7$-N-MeFOSE |
| N-EtFOSE | $D_9$-N-EtFOSE |
| HFPO-DA | $^{13}C_3$-HFPO-DA |
| ADONA | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | $^{13}C_3$-HFPO-DA |

[1] If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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| Surrogate standards | Quantified using |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | $^{13}C_4$-PFOA |
| $^{13}C_8$-PFOA | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_9$-PFNA | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | $^{13}C_4$-PFOS |
| $^{13}C_2$-4:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | $^{13}C_2$-PFHxA |
| **Recovery standards** | **Quantified using** |
| $^{13}C_3$-PFBA | External |
| $^{13}C_2$-PFHxA | External |
| $^{13}C_4$-PFOA | External |
| $^{13}C_5$-PFNA | External |
| $^{13}C_2$-PFDA | External |
| $^{18}O_2$-PFHxS | External |
| $^{13}C_4$-PFOS | External |
| $^{13}C_3$-PFBA | External |

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) |
|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 |

Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater

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## DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid And AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] |
|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 |
| | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 |
| | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 |
| | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] |
| $D_5$-N-EtFOSA | 20-150 | [2] |
| | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] |
| $D_5$-N-EtFOSAA | 50-150 | [2] |
| | | |
| $D_7$-N-MeFOSE | 30-150 | [2] |
| $D_9$-N-EtFOSE | 30-150 | [2] |
| | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

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## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL. |

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| QC Parameter | Specification |
|---|---|
| | Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90 day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies. For aqueous samples under DoD accreditation, the sample hold time is ≤14 days.

[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement. For samples under DoD accreditation the extract hold time is ≤28 days with storage at room temperature.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG71978.** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG71801-101 |
| OPR | WG71801-102 |
| MATRX SPIKE | WG71801-103 |
| | |
| 8099 6432 5990 | L32758-1 |
| EQ-SQUEEGE-022620 | L32758-2 |
| EQ-DIPPER-022620 | L32758-3 |
| EQ-ZIPBAG-022620 | L32758-4 |
| EQ-CHEESE-022620 | L32758-5 |
| GG-TEST-022620 | L32758-6 |
| WL12-WAT-BULK-01-022620 | L32758-7 |
| WL15-WAT-BULK-01-022620 | L32758-8 |
| WL18-WAT-BULK-01-022620 | L32758-9 |
| VB2-WAT-BULK-01-022620 | L32758-10 |
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SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| WL42-WAT-BULK-01-022620 | WT | 2/26/20 | 1350 | HDPE/4 | -7 | X | | | |
| WL15-WAT-BULK-01-022620 | WT | 2/26/20 | 1400 | HDPE/4 | -8 | X | | | |
| WL18-WAT-BULK-01-022620 | WT | 2/26/20 | 1615 | HDPE/4 | -9 | X | | | |
| WL VB2-WAT-BULK-01-022620 | WT | 2/26/20 | 1550 | HDPE/4 | -10 | X | | | |
| EQ-SQUEEGEE-022620 | WT | 2/26/20 | 1650 | HDPE/2 | 500mL only (two) -2 | X | | | |
| EQ-DIPPER-022620 | WT | 2/26/20 | 1700 | HDPE/2 | -500 mL only (two) -3 | X | | | |
| EQ-ZIPBAG-022620 | WT | 2/26/20 | 1730 | HDPE/2 | -500mL only (two) -4 | X | | | |
| EQ-CHEESE-022620 | WT | 2/26/20 | 1715 | HDPE/2 | -500 mL only (two) -5 | X | | | |
| GG-TEST-022620 | WT | 2/26/20 | 1450 | HDPE/2 | -500 mL only (two) -6 | X | | | |
| 8099 6432 5990 | WT | 2/26/20 | — | HDPE/1 | L32758-1 | X | | | X |

Relinquished by (Signature) Date 2/28/20 Time 1200
Received by (Signature) Date 2/28/20 Time 1200
Courier: FedEx
Waybill No.: 8099 6432 5990

Relinquished by (Signature) Date 3/2/20 Time 1730
Received by (Signature) Date Time

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

4095

ORIGIN ID:JDTA (612) 376-2452
ANDREW TARARA
AECOM
800 LASALLE AVE STE 1100

MINNEAPOLIS, MN 55402 US
SIGN: ANDREW TARARA

SHIP DATE: 02MAR20
ACTWGT: 47.50 LB
CAD: 6992597/SSF02021
DIMS: 26x14x14 IN

BILL THIRD PARTY
NO EEI 30.36

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 MILLS RD W

SIDNEY BC V8L5X2 (CA)
(250) 655-6800 REF:
INV:
PO: DEPT:

FedEx Express

J201020011302uv

TRK# 0430 3908 0363 4517

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

08:50
5704
3.9°C
bags wet ice, melting

RCP
RCVD: 04-MAR-2020

WB 27241

# FedEx Express International Air Waybill

FedEx Tracking Number 8099 6432 5990 Form ID No. 0402 4095

**Manifest Billing Copy**

**1 From**

Date 03/02/20 Sender's FedEx Account Number 1410-8393-7

Sender's Name Andrew Tavara Phone 612-376-2452

Company AECOM

Address 800 LaSalle Ave, Ste 1100

Address

City Minneapolis State Province MN

Country USA ZIP Postal Code 55402

**2 To**

Recipient's Name Sample Receiving Phone 250-655-5800

Company SGS Axys Analytical

Address 2045 Mills Rd (c)

Dept./Floor

Address

City Sidney State Province BC

Country CA ZIP Postal Code V8L 5X2

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

**3 Shipment Information**

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) _____ Total Weight _____ ☐ lbs. ☐ kg DIM ___ / ___ / ___ ☐ in. ☐ cm

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| HDPE Bottles for water sampling | 3922.0 | USA | $110 |

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
Total Declared Value for Carriage
If other than NLR, enter License Exception:
Total Value for Customs (Specify Currency)

**4 Express Package Service**

*Packages up to 150 lbs. / 68 kg* — *For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

1 ☒ FedEx Intl. Priority
6 ☐ FedEx Intl. First — Available to select locations.
☐ _____
3 ☐ FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

**5 Packaging**

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☒ Other Cooler PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

**6 Special Handling**

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

**7 Payment**

Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque

FedEx Acct. No. 3678-6306-4 Total Transportation

Credit Card No.

Credit Card Exp. Date Specify Currency

*Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☒ Recipient 3 ☐ Third Party

FedEx Acct. No.

**8 Your Internal Billing Reference**

First 24 characters will appear on invoice.

**9 Required Signature**

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:**

*This is not authorization to deliver this shipment without a recipient signature.*

568

PART 158410
Rev. Date 11/08
©1994–2008 FedEx
PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6432 5990 0402 Form ID No.

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units / Total Volume (cm) |
|---|---|---|---|
| | | | |

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station — Forms Attached: ☐ CI ☐ CO

Base Charges _____ Declared Val. Chrg. _____ Other _____ ODA/OPA _____ Credit Card Auth. _____

FedEx Emp. # _____ Audit Emp. # _____ Date _____ Time _____ Del. Courier Emp. # _____ Date _____ Time _____

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

RRDA 12/15

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 02-MAR-20

Waybill #: 390803634517
Date /Time Received: 04-MAR-20 08:50
Receipt No: WB27241

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: [signature]

Signature: RGENDIVE

Axys Sample ID's: L32758-1 to -10

Matrix Type: AQ

Condition of Shipping Container: Intact

Temperature upon Receipt: 3.9 Celcius bags wet ice, melted

Thermometer ID: 5704
Corrected Temperature: 3.9 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No
If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

DPR
05-Mar-2020

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Mar. 05, 2020*
*01:08 PM*

**Login Number:** L32758
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32758-1** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| 8099 6432 5990 | FIELDQC | | | |
| 26-FEB-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L32758-2** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| EQ-SQUEEGE-022620 | FIELDQC | | | |
| 26-FEB-20 16:50 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L32758-3** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| EQ-DIPPER-022620 | FIELDQC | | | |
| 26-FEB-20 17:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L32758-4** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| EQ-ZIPBAG-022620 | FIELDQC | | | |
| 26-FEB-20 17:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Mar. 05, 2020*

*01:08 PM*

**Login Number:** L32758
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32758-5** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| EQ-CHEESE-022620<br>26-FEB-20 17:15 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L32758-6** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| GG-TEST-022620<br>26-FEB-20 14:50 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L32758-7** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| WL12-WAT-BULK-01-022620<br>26-FEB-20 13:50 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Mar. 05, 2020*
*01:08 PM*

**Login Number:** L32758
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32758-8** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| WL15-WAT-BULK-01-022620<br>26-FEB-20 14:00 | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32758-9** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| WL18-WAT-BULK-01-022620<br>26-FEB-20 16:15 | SS00087<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32758-10** | | 04-MAR-20 | | |
| | Storage: black bin on floor in front of, 7 | | | |
| VB2-WAT-BULK-01-022620<br>26-FEB-20 15:50 | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

Contract: 4095

Date: 04-Mar-2020

Initials: STC

| Axys ID | Client ID | | Sampling Date&Time | | Missing | Damaged Label | Other/Comments: |
|---|---|---|---|---|---|---|---|
| | COC | Client Label (if discrepancy) | COC | Client Label (if discrepancy) | | | |
| L32758-1 | 809964325990 | Trip blank | 26/02/2020 | | | | ID used by client always comes from fedex tracking # |
| L32758-2 | EQ-SQUEEGE-022620 | | 26/02/2020 4:50:00 PM | | | | |
| L32758-3 | EQ-DIPPER-022620 | | 26/02/2020 5:00:00 PM | | | | |
| L32758-4 | EQ-ZIPBAG-022620 | | 26/02/2020 5:30:00 PM | | | | |
| L32758-5 | EQ-CHEESE-022620 | | 26/02/2020 5:15:00 PM | | | | |
| L32758-6 | GG-TEST-022620 | | 26/02/2020 2:50:00 PM | | | | |
| L32758-7 | WL12-WAT-BULK-01-022620 | | 26/02/2020 1:50:00 PM | | | | |
| L32758-8 | WL15-WAT-BULK-01-022620 | | 26/02/2020 2:00:00 PM | | | | |
| L32758-9 | WL18-WAT-BULK-01-022620 | | 26/02/2020 4:15:00 PM | | | | |
| L32758-10 | VB2-WAT-BULK-01-022620 | | 26/02/2020 3:50:00 PM | | | | |
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Definitions:
Missing: sample(s) listed on the COC which did not arrive with the shipment
Damaged label: sample(s) which have a damaged or illegible label. X=sample able to be identified through process of elimination or a partial match, ? = unknown
Client label: field populated if differs from COC

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**8099 6432 5990**
**Sample Collection:**
**26-Feb-2020**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.501 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:14:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 18** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.799 (L) | |
| **PFHpA** | U | | 0.799 (L) | |
| **PFOA** | U | | 0.799 (L) | |
| **PFNA** | U | | 0.799 (L) | |
| **PFDA** | U | | 0.799 (L) | |
| **PFUnA** | U | | 0.799 (L) | |
| **PFDoA** | U | | 0.799 (L) | |
| **PFTrDA** | U | | 0.799 (L) | |
| **PFTeDA** | U | | 0.799 (L) | |
| **PFBS** | U | | 0.799 (L) | |
| **PFPeS** | U | | 0.799 (L) | |
| **PFHxS** | U | | 0.799 (L) | |
| **PFHpS** | U | | 0.799 (L) | |
| **PFOS** | U | | 0.799 (L) | |
| **PFNS** | U | | 0.799 (L) | |
| **PFDS** | U | | 0.799 (L) | |
| **PFDoS** | U | | 0.799 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.799 (L) | |
| **N-MeFOSA** | U | | 0.919 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.799 (L) | |
| **EtFOSAA** | U | | 0.799 (L) | |
| **N-MeFOSE** | U | | 7.99 (L) | |
| **N-EtFOSE** | U | | 5.99 (L) | |
| **HFPO-DA** | U | | 3.20 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-1_Form1A_FC0L_086S18_SJ2725444.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**8099 6432 5990**
**Sample Collection:**
**26-Feb-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.501 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:14:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 18** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.0 | 89.9 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.67 | 96.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 9.15 | 91.5 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.78 | 87.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.37 | 87.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.63 | 92.6 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.46 | 89.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.89 | 77.8 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.24 | 92.4 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.82 | 88.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.87 | 88.7 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 22.2 | 111 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 23.1 | 116 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 23.0 | 115 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.56 | 75.6 | 8:45 |
| **D3-N-MeFOSA** | V | 10.0 | 4.92 | 49.2 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 5.46 | 54.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.5 | 87.4 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 17.9 | 89.7 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 76.4 | 76.4 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 78.5 | 78.5 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.9 | 97.2 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-1_Form2_FC0L_086S18_SJ2725444.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-SQUEEGE-022620**
**Sample Collection:**
**26-Feb-2020 16:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32758-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.531 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:27:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.01 (L) | |
| **PFPeA** | U | | 1.51 (L) | |
| **PFHxA** | U | | 0.753 (L) | |
| **PFHpA** | U | | 0.753 (L) | |
| **PFOA** | U | | 0.753 (L) | |
| **PFNA** | U | | 0.753 (L) | |
| **PFDA** | U | | 0.753 (L) | |
| **PFUnA** | U | | 0.753 (L) | |
| **PFDoA** | U | | 0.753 (L) | |
| **PFTrDA** | U | | 0.753 (L) | |
| **PFTeDA** | U | | 0.753 (L) | |
| **PFBS** | U | | 0.753 (L) | |
| **PFPeS** | U | | 0.753 (L) | |
| **PFHxS** | U | | 0.753 (L) | |
| **PFHpS** | U | | 0.753 (L) | |
| **PFOS** | U | | 0.753 (L) | |
| **PFNS** | U | | 0.753 (L) | |
| **PFDS** | U | | 0.753 (L) | |
| **PFDoS** | U | | 0.753 (L) | |
| **4:2 FTS** | U | | 3.01 (L) | |
| **6:2 FTS** | U | | 2.71 (L) | |
| **8:2 FTS** | U | | 3.01 (L) | |
| **PFOSA** | U | | 0.753 (L) | |
| **N-MeFOSA** | U | | 0.866 (L) | |
| **N-EtFOSA** | U | | 1.88 (L) | |
| **MeFOSAA** | U | | 0.753 (L) | |
| **EtFOSAA** | U | | 0.753 (L) | |
| **N-MeFOSE** | U | | 7.53 (L) | |
| **N-EtFOSE** | U | | 5.65 (L) | |
| **HFPO-DA** | U | | 3.01 (L) | |
| **ADONA** | U | | 3.01 (L) | |
| **9Cl-PF3ONS** | U | | 3.01 (L) | |
| **11Cl-PF3OUdS** | U | | 3.01 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-2_Form1A_FC0L_086S19_SJ2725445.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-SQUEEGE-022620**
**Sample Collection:**
**26-Feb-2020 16:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.531 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:27:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.4 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.0 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.30 | 93.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.99 | 89.9 | 5:23 |
| **13C8-PFOA** | | 10.0 | 9.03 | 90.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.40 | 88.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.2 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.74 | 94.9 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.74 | 94.7 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.01 | 80.1 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.22 | 92.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.83 | 88.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.18 | 91.8 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 22.6 | 113 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 18.4 | 91.9 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.53 | 75.3 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.65 | 66.5 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.76 | 67.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 18.3 | 91.7 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 16.1 | 80.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 78.1 | 78.1 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 79.7 | 79.7 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.7 | 94.4 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-2_Form2_FC0L_086S19_SJ2725445.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-DIPPER-022620**
**Sample Collection:**
**26-Feb-2020 17:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32758-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:40:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.05 (L) | |
| **PFPeA** | U | | 1.53 (L) | |
| **PFHxA** | U | | 0.763 (L) | |
| **PFHpA** | U | | 0.763 (L) | |
| **PFOA** | U | | 0.763 (L) | |
| **PFNA** | U | | 0.763 (L) | |
| **PFDA** | U | | 0.763 (L) | |
| **PFUnA** | U | | 0.763 (L) | |
| **PFDoA** | U | | 0.763 (L) | |
| **PFTrDA** | U | | 0.763 (L) | |
| **PFTeDA** | U | | 0.763 (L) | |
| **PFBS** | U | | 0.763 (L) | |
| **PFPeS** | U | | 0.763 (L) | |
| **PFHxS** | U | | 0.763 (L) | |
| **PFHpS** | U | | 0.763 (L) | |
| **PFOS** | U | | 0.763 (L) | |
| **PFNS** | U | | 0.763 (L) | |
| **PFDS** | U | | 0.763 (L) | |
| **PFDoS** | U | | 0.763 (L) | |
| **4:2 FTS** | U | | 3.05 (L) | |
| **6:2 FTS** | U | | 2.75 (L) | |
| **8:2 FTS** | U | | 3.05 (L) | |
| **PFOSA** | U | | 0.763 (L) | |
| **N-MeFOSA** | U | | 0.877 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.763 (L) | |
| **EtFOSAA** | U | | 0.763 (L) | |
| **N-MeFOSE** | U | | 7.63 (L) | |
| **N-EtFOSE** | U | | 5.72 (L) | |
| **HFPO-DA** | U | | 3.05 (L) | |
| **ADONA** | U | | 3.05 (L) | |
| **9Cl-PF3ONS** | U | | 3.05 (L) | |
| **11Cl-PF3OUdS** | U | | 3.05 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-3_Form1A_FC0L_086S20_SJ2725446.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-DIPPER-022620**
**Sample Collection:**
**26-Feb-2020 17:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:40:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.9 | 89.7 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 91.9 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.21 | 92.1 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.88 | 88.8 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.79 | 87.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.32 | 86.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.37 | 107 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.82 | 116 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.79 | 95.7 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.40 | 88.0 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.18 | 91.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.62 | 86.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 11.1 | 111 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 21.7 | 108 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 22.1 | 111 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 23.0 | 115 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 9.09 | 90.9 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 7.41 | 74.1 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 7.80 | 78.0 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.0 | 85.2 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 20.8 | 104 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 88.6 | 88.6 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 90.3 | 90.3 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 39.4 | 98.5 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-3_Form2_FC0L_086S20_SJ2725446.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-ZIPBAG-022620**
**Sample Collection:**
**26-Feb-2020 17:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:53:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 2.94 (L) | |
| **PFPeA** | U | | 1.47 (L) | |
| **PFHxA** | U | | 0.735 (L) | |
| **PFHpA** | U | | 0.735 (L) | |
| **PFOA** | U | | 0.735 (L) | |
| **PFNA** | U | | 0.735 (L) | |
| **PFDA** | U | | 0.735 (L) | |
| **PFUnA** | U | | 0.735 (L) | |
| **PFDoA** | U | | 0.735 (L) | |
| **PFTrDA** | U | | 0.735 (L) | |
| **PFTeDA** | U | | 0.735 (L) | |
| **PFBS** | U | | 0.735 (L) | |
| **PFPeS** | U | | 0.735 (L) | |
| **PFHxS** | U | | 0.735 (L) | |
| **PFHpS** | U | | 0.735 (L) | |
| **PFOS** | U | | 0.735 (L) | |
| **PFNS** | U | | 0.735 (L) | |
| **PFDS** | U | | 0.735 (L) | |
| **PFDoS** | U | | 0.735 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | U | | 0.735 (L) | |
| **N-MeFOSA** | U | | 0.845 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.735 (L) | |
| **EtFOSAA** | U | | 0.735 (L) | |
| **N-MeFOSE** | U | | 7.35 (L) | |
| **N-EtFOSE** | U | | 5.51 (L) | |
| **HFPO-DA** | U | | 2.94 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-4_Form1A_FC0L_086S21_SJ2725447.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-ZIPBAG-022620**
**Sample Collection:**
**26-Feb-2020 17:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:53:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.6 | 86.5 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 18.1 | 90.6 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.05 | 90.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.89 | 88.9 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.61 | 86.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.1 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.02 | 100 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.72 | 74.4 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.90 | 78.0 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.63 | 96.3 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.01 | 90.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.96 | 89.6 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 21.6 | 108 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 22.6 | 113 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 23.7 | 118 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.55 | 75.5 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.16 | 61.6 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.36 | 63.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.0 | 85.1 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 16.5 | 82.6 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 76.3 | 76.3 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 77.2 | 77.2 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 35.7 | 89.1 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-4_Form2_FC0L_086S21_SJ2725447.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-CHEESE-022620**
**Sample Collection:**
**26-Feb-2020 17:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.539 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:06:30 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 2.97 (L) | |
| **PFPeA** | U | | 1.48 (L) | |
| **PFHxA** | U | | 0.742 (L) | |
| **PFHpA** | U | | 0.742 (L) | |
| **PFOA** | U | | 0.742 (L) | |
| **PFNA** | U | | 0.742 (L) | |
| **PFDA** | U | | 0.742 (L) | |
| **PFUnA** | U | | 0.742 (L) | |
| **PFDoA** | U | | 0.742 (L) | |
| **PFTrDA** | U | | 0.742 (L) | |
| **PFTeDA** | U | | 0.742 (L) | |
| **PFBS** | U | | 0.742 (L) | |
| **PFPeS** | U | | 0.742 (L) | |
| **PFHxS** | U | | 0.742 (L) | |
| **PFHpS** | U | | 0.742 (L) | |
| **PFOS** | U | | 0.742 (L) | |
| **PFNS** | U | | 0.742 (L) | |
| **PFDS** | U | | 0.742 (L) | |
| **PFDoS** | U | | 0.742 (L) | |
| **4:2 FTS** | U | | 2.97 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.97 (L) | |
| **PFOSA** | U | | 0.742 (L) | |
| **N-MeFOSA** | U | | 0.853 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.742 (L) | |
| **EtFOSAA** | U | | 0.742 (L) | |
| **N-MeFOSE** | U | | 7.42 (L) | |
| **N-EtFOSE** | U | | 5.56 (L) | |
| **HFPO-DA** | U | | 2.97 (L) | |
| **ADONA** | U | | 2.97 (L) | |
| **9Cl-PF3ONS** | U | | 2.97 (L) | |
| **11Cl-PF3OUdS** | U | | 2.97 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-5_Form1A_FC0L_086S22_SJ2725448.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-CHEESE-022620**
**Sample Collection:**
**26-Feb-2020 17:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.539 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:06:30 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.4 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.7 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.51 | 95.1 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.67 | 86.7 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.76 | 87.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.24 | 84.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.88 | 97.6 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.06 | 101 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.92 | 98.4 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.03 | 80.7 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.33 | 93.3 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.68 | 86.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.35 | 93.5 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 20.9 | 105 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 22.0 | 110 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 22.4 | 112 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.87 | 78.7 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 5.93 | 59.3 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.18 | 61.8 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.7 | 88.4 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 18.8 | 93.8 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 81.6 | 81.6 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 82.7 | 82.7 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.8 | 94.5 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-5_Form2_FC0L_086S22_SJ2725448.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**GG-TEST-022620**
**Sample Collection:**
**26-Feb-2020 14:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32758-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:19:27 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.05 (L) | |
| **PFPeA** | U | | 1.53 (L) | |
| **PFHxA** | U | | 0.763 (L) | |
| **PFHpA** | U | | 0.763 (L) | |
| **PFOA** | U | | 0.763 (L) | |
| **PFNA** | U | | 0.763 (L) | |
| **PFDA** | U | | 0.763 (L) | |
| **PFUnA** | U | | 0.763 (L) | |
| **PFDoA** | U | | 0.763 (L) | |
| **PFTrDA** | U | | 0.763 (L) | |
| **PFTeDA** | U | | 0.763 (L) | |
| **PFBS** | U | | 0.763 (L) | |
| **PFPeS** | U | | 0.763 (L) | |
| **PFHxS** | U | | 0.763 (L) | |
| **PFHpS** | U | | 0.763 (L) | |
| **PFOS** | U | | 0.763 (L) | |
| **PFNS** | U | | 0.763 (L) | |
| **PFDS** | U | | 0.763 (L) | |
| **PFDoS** | U | | 0.763 (L) | |
| **4:2 FTS** | U | | 3.05 (L) | |
| **6:2 FTS** | U | | 2.75 (L) | |
| **8:2 FTS** | U | | 3.05 (L) | |
| **PFOSA** | U | | 0.763 (L) | |
| **N-MeFOSA** | U | | 0.878 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.763 (L) | |
| **EtFOSAA** | U | | 0.763 (L) | |
| **N-MeFOSE** | U | | 7.63 (L) | |
| **N-EtFOSE** | U | | 5.73 (L) | |
| **HFPO-DA** | U | | 3.05 (L) | |
| **ADONA** | U | | 3.05 (L) | |
| **9Cl-PF3ONS** | U | | 3.05 (L) | |
| **11Cl-PF3OUdS** | U | | 3.05 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-6_Form1A_FC0L_086S23_SJ2725449.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**GG-TEST-022620**
**Sample Collection:**
**26-Feb-2020 14:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:19:27 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 100 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.47 | 94.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.63 | 86.3 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.64 | 86.4 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.21 | 84.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.85 | 97.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.19 | 104 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.92 | 98.4 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.85 | 77.0 | 8:54 |
| **13C3-PFBS** | | 10.0 | 8.67 | 86.7 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.66 | 86.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.49 | 94.9 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 20.3 | 102 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 20.9 | 105 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 21.8 | 109 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.68 | 76.8 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.39 | 63.9 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.32 | 63.2 | 10:29 |
| **D3-MeFOSAA** | | 20.0 | 17.6 | 88.1 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 17.5 | 87.7 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 80.3 | 80.3 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 83.3 | 83.3 | 10:21 |
| **13C3-HFPO-DA** | | 40.0 | 38.8 | 97.0 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-6_Form2_FC0L_086S23_SJ2725449.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 13:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.517 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:32:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 463 | 3.10 (L) | 1:58 |
| **PFPeA** | | 12.9 | 1.55 (L) | 4:19 |
| **PFHxA** | | 12.6 | 0.774 (L) | 4:54 |
| **PFHpA** | | 5.85 | 0.774 (L) | 5:24 |
| **PFOA** | | 54.9 | 0.774 (L) | |
| **PFNA** | U | | 0.774 (L) | |
| **PFDA** | U | | 0.774 (L) | |
| **PFUnA** | U | | 0.774 (L) | |
| **PFDoA** | U | | 0.774 (L) | |
| **PFTrDA** | U | | 0.774 (L) | |
| **PFTeDA** | U | | 0.774 (L) | |
| **PFBS** | | 3.74 | 0.774 (L) | 4:51 |
| **PFPeS** | | 2.31 | 0.774 (L) | 5:25 |
| **PFHxS** | | 8.29 | 0.774 (L) | |
| **PFHpS** | J | 0.935 | 0.774 (L) | 7:09 |
| **PFOS** | | 76.1 | 0.774 (L) | |
| **PFNS** | U | | 0.774 (L) | |
| **PFDS** | U | | 0.774 (L) | |
| **PFDoS** | U | | 0.774 (L) | |
| **4:2 FTS** | U | | 3.10 (L) | |
| **6:2 FTS** | U | | 2.79 (L) | |
| **8:2 FTS** | U | | 3.10 (L) | |
| **PFOSA** | U | | 0.774 (L) | |
| **N-MeFOSA** | U | | 0.890 (L) | |
| **N-EtFOSA** | U | | 1.94 (L) | |
| **MeFOSAA** | U | | 0.774 (L) | |
| **EtFOSAA** | U | | 0.774 (L) | |
| **N-MeFOSE** | U | | 7.74 (L) | |
| **N-EtFOSE** | U | | 5.81 (L) | |
| **HFPO-DA** | U | | 3.10 (L) | |
| **ADONA** | U | | 3.10 (L) | |
| **9Cl-PF3ONS** | U | | 3.10 (L) | |
| **11Cl-PF3OUdS** | U | | 3.10 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-7_Form1A_FC0L_086S24_SJ2725450.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 13:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.517 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:32:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 29.5 | 73.8 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 97.9 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.35 | 93.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.98 | 89.8 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.53 | 85.3 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.34 | 86.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.74 | 94.9 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.61 | 92.3 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.12 | 82.4 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.50 | 69.9 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.81 | 88.1 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.55 | 85.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.50 | 95.0 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.0 | 90.2 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 19.2 | 96.1 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 20.0 | 99.8 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.21 | 82.1 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 7.15 | 71.5 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 7.15 | 71.5 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 14.8 | 74.2 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 18.7 | 93.6 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 79.9 | 79.9 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 78.1 | 78.1 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 39.3 | 98.3 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-7_Form2_FC0L_086S24_SJ2725450.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-8 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.407 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:45:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 460 | 3.93 (L) | 1:58 |
| **PFPeA** | | 13.1 | 1.97 (L) | 4:19 |
| **PFHxA** | | 12.9 | 0.983 (L) | 4:54 |
| **PFHpA** | | 6.38 | 0.983 (L) | 5:23 |
| **PFOA** | | 54.1 | 0.983 (L) | |
| **PFNA** | U | | 0.983 (L) | |
| **PFDA** | U | | 0.983 (L) | |
| **PFUnA** | U | | 0.983 (L) | |
| **PFDoA** | U | | 0.983 (L) | |
| **PFTrDA** | U | | 0.983 (L) | |
| **PFTeDA** | U | | 0.983 (L) | |
| **PFBS** | | 4.02 | 0.983 (L) | 4:51 |
| **PFPeS** | | 2.47 | 0.983 (L) | 5:25 |
| **PFHxS** | | 8.31 | 0.983 (L) | |
| **PFHpS** | J | 1.03 | 0.983 (L) | 7:09 |
| **PFOS** | | 91.0 | 0.983 (L) | |
| **PFNS** | U | | 0.983 (L) | |
| **PFDS** | U | | 0.983 (L) | |
| **PFDoS** | U | | 0.983 (L) | |
| **4:2 FTS** | U | | 3.93 (L) | |
| **6:2 FTS** | U | | 3.54 (L) | |
| **8:2 FTS** | U | | 3.93 (L) | |
| **PFOSA** | U | | 0.983 (L) | |
| **N-MeFOSA** | U | | 1.13 (L) | |
| **N-EtFOSA** | U | | 2.46 (L) | |
| **MeFOSAA** | U | | 0.983 (L) | |
| **EtFOSAA** | U | | 0.983 (L) | |
| **N-MeFOSE** | U | | 9.83 (L) | |
| **N-EtFOSE** | U | | 7.37 (L) | |
| **HFPO-DA** | U | | 3.93 (L) | |
| **ADONA** | U | | 3.93 (L) | |
| **9Cl-PF3ONS** | U | | 3.93 (L) | |
| **11Cl-PF3OUdS** | U | | 3.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-8_Form1A_FC0L_086S25_SJ2725451.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 14:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-8 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.407 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:45:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 28.3 | 70.7 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.9 | 99.3 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.50 | 95.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.97 | 89.7 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.74 | 87.4 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.29 | 85.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.95 | 98.9 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.64 | 92.7 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.13 | 82.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.33 | 66.7 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.32 | 93.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.14 | 91.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.17 | 91.7 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.3 | 91.7 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 21.2 | 106 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 22.0 | 110 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.13 | 81.3 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.67 | 66.7 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.62 | 66.2 | 10:29 |
| **D3-MeFOSAA** | | 20.0 | 17.9 | 89.4 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 18.5 | 92.6 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 75.3 | 75.3 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 73.6 | 73.6 | 10:21 |
| **13C3-HFPO-DA** | | 40.0 | 39.3 | 98.2 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-8_Form2_FC0L_086S25_SJ2725451.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL18-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 16:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32758-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:58:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 449 | 2.92 (L) | 1:58 |
| **PFPeA** | | 13.1 | 1.46 (L) | 4:19 |
| **PFHxA** | | 12.5 | 0.730 (L) | 4:54 |
| **PFHpA** | | 6.52 | 0.730 (L) | 5:24 |
| **PFOA** | | 55.9 | 0.884 (S) | |
| **PFNA** | J | 0.886 | 0.730 (L) | |
| **PFDA** | J | 0.874 | 0.730 (L) | 7:34 |
| **PFUnA** | U | | 0.730 (L) | |
| **PFDoA** | U | | 0.730 (L) | |
| **PFTrDA** | U | | 0.730 (L) | |
| **PFTeDA** | U | | 0.730 (L) | |
| **PFBS** | | 3.84 | 0.730 (L) | 4:51 |
| **PFPeS** | | 2.33 | 0.730 (L) | 5:25 |
| **PFHxS** | | 8.59 | 0.730 (L) | |
| **PFHpS** | J | 1.14 | 0.730 (L) | 7:09 |
| **PFOS** | | 110 | 0.730 (L) | |
| **PFNS** | U | | 0.730 (L) | |
| **PFDS** | U | | 0.730 (L) | |
| **PFDoS** | U | | 0.730 (L) | |
| **4:2 FTS** | U | | 2.92 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.92 (L) | |
| **PFOSA** | U | | 0.730 (L) | |
| **N-MeFOSA** | U | | 0.840 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.730 (L) | |
| **EtFOSAA** | U | | 0.730 (L) | |
| **N-MeFOSE** | U | | 7.30 (L) | |
| **N-EtFOSE** | U | | 5.48 (L) | |
| **HFPO-DA** | U | | 2.92 (L) | |
| **ADONA** | U | | 2.92 (L) | |
| **9Cl-PF3ONS** | U | | 2.92 (L) | |
| **11Cl-PF3OUdS** | U | | 2.92 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-9_Form1A_FC0L_086S26_SJ2725452.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL18-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 16:15**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 05:58:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 24.2 | 60.4 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 96.8 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.52 | 95.2 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.77 | 87.7 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.68 | 86.8 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.61 | 92.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 3.84 | 76.9 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.76 | 95.2 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.34 | 86.7 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.22 | 64.3 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.43 | 94.3 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.84 | 88.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.70 | 87.0 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 17.8 | 88.9 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 18.2 | 90.8 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 19.0 | 94.8 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.75 | 77.5 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 7.30 | 73.0 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.91 | 69.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.1 | 80.4 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 16.1 | 80.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 71.9 | 71.9 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 72.2 | 72.2 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 39.7 | 99.2 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-9_Form2_FC0L_086S26_SJ2725452.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB2-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 15:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32758-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 06:11:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 229 | 3.02 (L) | 1:58 |
| **PFPeA** | | 7.76 | 1.51 (L) | 4:19 |
| **PFHxA** | J | 3.82 | 0.754 (L) | 4:54 |
| **PFHpA** | J | 1.63 | 0.754 (L) | 5:23 |
| **PFOA** | | 12.3 | 0.754 (L) | |
| **PFNA** | U | | 0.754 (L) | |
| **PFDA** | U | | 0.754 (L) | |
| **PFUnA** | U | | 0.754 (L) | |
| **PFDoA** | U | | 0.754 (L) | |
| **PFTrDA** | U | | 0.754 (L) | |
| **PFTeDA** | U | | 0.754 (L) | |
| **PFBS** | | 2.49 | 0.754 (L) | 4:51 |
| **PFPeS** | J | 0.935 | 0.754 (L) | 5:25 |
| **PFHxS** | | 3.69 | 0.754 (L) | |
| **PFHpS** | U | | 0.754 (L) | |
| **PFOS** | | 13.4 | 0.754 (L) | |
| **PFNS** | U | | 0.754 (L) | |
| **PFDS** | U | | 0.754 (L) | |
| **PFDoS** | U | | 0.754 (L) | |
| **4:2 FTS** | U | | 3.02 (L) | |
| **6:2 FTS** | U | | 2.72 (L) | |
| **8:2 FTS** | U | | 3.02 (L) | |
| **PFOSA** | U | | 0.754 (L) | |
| **N-MeFOSA** | U | | 0.867 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | U | | 0.754 (L) | |
| **EtFOSAA** | U | | 0.754 (L) | |
| **N-MeFOSE** | U | | 7.54 (L) | |
| **N-EtFOSE** | U | | 5.66 (L) | |
| **HFPO-DA** | U | | 3.02 (L) | |
| **ADONA** | U | | 3.02 (L) | |
| **9Cl-PF3ONS** | U | | 3.02 (L) | |
| **11Cl-PF3OUdS** | U | | 3.02 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-10_Form1A_FC0L_086S27_SJ2725453.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB2-WAT-BULK-01-022620**
**Sample Collection:**
**26-Feb-2020 15:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32758-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 04-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 06:11:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.5 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 97.2 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.47 | 94.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.74 | 87.4 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.80 | 88.0 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.17 | 83.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.77 | 95.3 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.80 | 96.0 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.40 | 87.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.70 | 74.0 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.52 | 95.2 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.05 | 90.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.16 | 91.6 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 19.6 | 98.0 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 22.7 | 113 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 22.7 | 114 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.11 | 81.1 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.88 | 68.8 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.66 | 66.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.9 | 89.6 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 16.9 | 84.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 74.5 | 74.5 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 72.6 | 72.6 | 10:21 |
| **13C3-HFPO-DA** | | 40.0 | 39.5 | 98.8 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_L32758-10_Form2_FC0L_086S27_SJ2725453.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | WG71801-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 0.500 L |
| **Extraction Date:** | 19-Mar-2020 | **Initial Calibration Date:** | 14-Jan-2020 |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:01:22 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_086 S: 17** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.20 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_WG71801-101_Form1A_FC0L_086S17_SJ2725442.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71801-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 04:01:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_086 S: 17** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.5 | 93.7 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.94 | 99.4 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.54 | 85.4 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.94 | 89.4 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.50 | 90.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.65 | 93.0 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.37 | 107 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.74 | 94.8 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.96 | 79.1 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.74 | 97.4 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.39 | 93.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.74 | 97.4 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 22.4 | 112 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 23.6 | 118 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 24.3 | 121 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.14 | 81.4 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.17 | 61.7 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.41 | 64.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.4 | 86.9 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 18.2 | 91.2 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 79.2 | 79.2 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 79.7 | 79.7 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 39.9 | 99.7 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_WG71801-101_Form2_FC0L_086S17_SJ2725442.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71801-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 03:22:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_086 S: 14** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 38.2 | 95.4 | 1:58 |
| **PFPeA** | | 20.0 | 19.5 | 97.3 | 4:19 |
| **PFHxA** | | 10.0 | 8.66 | 86.6 | 4:54 |
| **PFHpA** | | 10.0 | 9.70 | 97.0 | 5:23 |
| **PFOA** | | 10.0 | 8.42 | 84.2 | |
| **PFNA** | | 10.0 | 9.71 | 97.1 | |
| **PFDA** | | 10.0 | 9.94 | 99.4 | 7:34 |
| **PFUnA** | | 10.0 | 9.29 | 92.9 | 7:54 |
| **PFDoA** | | 10.0 | 9.08 | 90.8 | 8:10 |
| **PFTrDA** | | 10.0 | 10.2 | 102 | 8:30 |
| **PFTeDA** | | 10.0 | 9.73 | 97.3 | 8:55 |
| **PFBS** | | 10.0 | 9.37 | 93.7 | 4:51 |
| **PFPeS** | | 10.0 | 9.61 | 96.1 | 5:25 |
| **PFHxS** | | 10.0 | 9.57 | 95.7 | |
| **PFHpS** | | 10.0 | 9.57 | 95.7 | 7:09 |
| **PFOS** | | 10.0 | 8.57 | 85.7 | |
| **PFNS** | N | 10.0 | 6.01 | 60.1 | 7:59 |
| **PFDS** | N | 10.0 | 7.35 | 73.5 | 8:16 |
| **PFDoS** | | 10.0 | 8.21 | 82.1 | 9:06 |
| **4:2 FTS** | | 40.0 | 42.7 | 107 | 4:46 |
| **6:2 FTS** | | 36.1 | 35.2 | 97.6 | 5:51 |
| **8:2 FTS** | | 40.0 | 40.6 | 102 | 7:23 |
| **PFOSA** | | 10.0 | 9.73 | 97.3 | |
| **N-MeFOSA** | | 11.5 | 11.2 | 97.4 | |
| **N-EtFOSA** | | 25.0 | 20.7 | 82.8 | |
| **MeFOSAA** | | 10.0 | 10.1 | 101 | |
| **EtFOSAA** | | 10.0 | 9.50 | 95.0 | |
| **N-MeFOSE** | | 100 | 95.8 | 95.8 | |
| **N-EtFOSE** | | 75.0 | 75.2 | 100 | |
| **HFPO-DA** | | 38.0 | 37.0 | 97.3 | 5:03 |
| **ADONA** | | 40.0 | 39.7 | 99.3 | 5:38 |
| **9Cl-PF3ONS** | | 40.0 | 41.6 | 104 | 7:54 |
| **11Cl-PF3OUdS** | | 40.0 | 39.2 | 97.9 | 8:31 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71801-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 03:22:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_086 S: 14** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.3 | 93.2 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 97.2 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.94 | 89.4 | 5:23 |
| **13C8-PFOA** | | 10.0 | 9.44 | 94.4 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.31 | 86.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.75 | 95.1 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.80 | 95.9 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.96 | 99.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.12 | 82.3 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.69 | 96.9 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.36 | 93.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.30 | 93.0 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.8 | 94.2 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 21.1 | 106 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 21.5 | 108 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.84 | 78.4 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.38 | 63.8 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 7.04 | 70.4 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.8 | 84.0 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 16.9 | 84.4 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 77.3 | 77.3 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 77.1 | 77.1 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.6 | 96.5 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_WG71801-102_Form8B_SJ2725433.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71801-103 (DUP WG71801-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 03:35:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_086 S: 15** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 38.0 | 95.0 | 1:58 |
| **PFPeA** | | 20.0 | 19.6 | 98.0 | 4:19 |
| **PFHxA** | | 10.0 | 8.71 | 87.1 | 4:54 |
| **PFHpA** | | 10.0 | 9.54 | 95.4 | 5:23 |
| **PFOA** | | 10.0 | 9.23 | 92.3 | |
| **PFNA** | | 10.0 | 9.00 | 90.0 | |
| **PFDA** | | 10.0 | 8.76 | 87.6 | 7:34 |
| **PFUnA** | | 10.0 | 8.93 | 89.3 | 7:54 |
| **PFDoA** | | 10.0 | 9.18 | 91.8 | 8:10 |
| **PFTrDA** | | 10.0 | 10.2 | 102 | 8:30 |
| **PFTeDA** | | 10.0 | 10.3 | 103 | 8:55 |
| **PFBS** | | 10.0 | 9.66 | 96.6 | 4:51 |
| **PFPeS** | | 10.0 | 9.87 | 98.7 | 5:25 |
| **PFHxS** | | 10.0 | 9.49 | 94.9 | |
| **PFHpS** | | 10.0 | 9.65 | 96.5 | 7:09 |
| **PFOS** | | 10.0 | 8.76 | 87.6 | |
| **PFNS** | | 10.0 | 9.90 | 99.0 | 7:59 |
| **PFDS** | | 10.0 | 9.44 | 94.4 | 8:16 |
| **PFDoS** | | 10.0 | 8.63 | 86.3 | 9:06 |
| **4:2 FTS** | | 40.0 | 39.9 | 99.9 | 4:46 |
| **6:2 FTS** | | 36.1 | 33.6 | 93.2 | 5:51 |
| **8:2 FTS** | | 40.0 | 40.5 | 101 | 7:23 |
| **PFOSA** | | 10.0 | 9.69 | 96.9 | |
| **N-MeFOSA** | | 11.5 | 11.4 | 99.0 | |
| **N-EtFOSA** | | 25.0 | 20.9 | 83.7 | |
| **MeFOSAA** | | 10.0 | 9.59 | 95.9 | |
| **EtFOSAA** | | 10.0 | 8.72 | 87.2 | |
| **N-MeFOSE** | | 100 | 95.8 | 95.8 | |
| **N-EtFOSE** | | 75.0 | 76.0 | 101 | |
| **HFPO-DA** | | 38.0 | 37.5 | 98.8 | 5:03 |
| **ADONA** | | 40.0 | 37.5 | 93.7 | 5:38 |
| **9Cl-PF3ONS** | | 40.0 | 40.5 | 101 | 7:54 |
| **11Cl-PF3OUdS** | | 40.0 | 40.2 | 100 | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFC_FC_LC_PFAS_WG71801-103_Form8A_SJ2725437.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71801-103 (DUP WG71801-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 14-Jan-2020 |
| **Extraction Date:** | 19-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 20-Mar-2020 **Time:** 03:35:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_086 S: 15** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_086 S: 17 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_086 S: 10 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.5 | 91.2 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 96.2 | 4:18 |
| **13C5-PFHxA** | | 10.0 | 9.47 | 94.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.71 | 87.1 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.88 | 88.8 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.39 | 87.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.87 | 97.3 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.02 | 100 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.87 | 97.5 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.92 | 78.4 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.44 | 94.4 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.50 | 95.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 19.8 | 98.9 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 21.7 | 108 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 21.1 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.44 | 84.4 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 6.12 | 61.2 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.12 | 61.2 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 19.0 | 95.2 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 19.5 | 97.7 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 81.4 | 81.4 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 78.0 | 78.0 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 39.4 | 98.4 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: PFC_FC_LC_PFAS_WG71801-103_Form8B_SJ2725437.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG71801-102 (A) LAB FLAG [1] | WG71801-102 (A) CONC. FOUND | WG71801-103 LAB FLAG [1] | WG71801-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 38.2 | | 38.0 | 38.1 | 0.436 |
| **PFPeA** | | 19.5 | | 19.6 | 19.5 | 0.741 |
| **PFHxA** | | 8.66 | | 8.71 | 8.69 | 0.531 |
| **PFHpA** | | 9.70 | | 9.54 | 9.62 | 1.61 |
| **PFOA** | | 8.42 | | 9.23 | 8.82 | 9.11 |
| **PFNA** | | 9.71 | | 9.00 | 9.35 | 7.64 |
| **PFDA** | | 9.94 | | 8.76 | 9.35 | 12.6 |
| **PFUnA** | | 9.29 | | 8.93 | 9.11 | 3.94 |
| **PFDoA** | | 9.08 | | 9.18 | 9.13 | 1.08 |
| **PFTrDA** | | 10.2 | | 10.2 | 10.2 | 0.429 |
| **PFTeDA** | | 9.73 | | 10.3 | 10.0 | 5.56 |
| **PFBS** | | 9.37 | | 9.66 | 9.51 | 3.05 |
| **PFPeS** | | 9.61 | | 9.87 | 9.74 | 2.67 |
| **PFHxS** | | 9.57 | | 9.49 | 9.53 | 0.792 |
| **PFHpS** | | 9.57 | | 9.65 | 9.61 | 0.807 |
| **PFOS** | | 8.57 | | 8.76 | 8.67 | 2.21 |
| **PFNS** | N | 6.01 | | 9.90 | 7.95 | 48.9 |
| **PFDS** | N | 7.35 | | 9.44 | 8.39 | 24.9 |
| **PFDoS** | | 8.21 | | 8.63 | 8.42 | 4.92 |
| **4:2 FTS** | | 42.7 | | 39.9 | 41.3 | 6.55 |
| **6:2 FTS** | | 35.2 | | 33.6 | 34.4 | 4.62 |
| **8:2 FTS** | | 40.6 | | 40.5 | 40.6 | 0.247 |
| **PFOSA** | | 9.73 | | 9.69 | 9.71 | 0.486 |
| **N-MeFOSA** | | 11.2 | | 11.4 | 11.3 | 1.59 |
| **N-EtFOSA** | | 20.7 | | 20.9 | 20.8 | 1.15 |
| **MeFOSAA** | | 10.1 | | 9.59 | 9.86 | 5.60 |
| **EtFOSAA** | | 9.50 | | 8.72 | 9.11 | 8.59 |
| **N-MeFOSE** | | 95.8 | | 95.8 | 95.8 | 0.028 |
| **N-EtFOSE** | | 75.2 | | 76.0 | 75.6 | 0.983 |
| **HFPO-DA** | | 37.0 | | 37.5 | 37.3 | 1.48 |
| **ADONA** | | 39.7 | | 37.5 | 38.6 | 5.82 |
| **9Cl-PF3ONS** | | 41.6 | | 40.5 | 41.1 | 2.88 |
| **11Cl-PF3OUdS** | | 39.2 | | 40.2 | 39.7 | 2.61 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: RPD_FC_LC_PFAS-RPD_WG71801-103_WG71801-102_.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 97.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 99.0 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 94.1 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 88.6 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 87.4 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 103 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 94.0 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 101 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 124 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 100 | 109 | 102 | 105 | 97.0 | 84.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 103 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 101 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 94.7 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 102 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 91.6 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 81.1 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.4 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.9 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 110 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 101 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 101 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 97.2 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 102 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 99.8 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 101 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 104 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 101 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 105 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 97.0 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Henry Huang_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS86901.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.4 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 103 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 99.9 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.2 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 112 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 101 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.0 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 95.4 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.5 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 103 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 95.1 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 104 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 112 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 93.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 96.0 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 96.1 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 95.8 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.6 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.7 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 96.2 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 105 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

For Axys Internal Use Only [ XSL Template: FC-Form3B.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3B_GS86901.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Henry Huang_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS86901.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS86901.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_086 S: 10 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 20-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:30:18 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 40.0 | 99.9 |
| **PFPeA** | | 4:19 | 20.0 | 20.3 | 101 |
| **PFHxA** | | 4:54 | 10.0 | 9.17 | 91.7 |
| **PFHpA** | | 5:23 | 10.0 | 9.55 | 95.5 |
| **PFOA** | | 6:11 | 10.0 | 9.13 | 91.3 |
| **PFNA** | | 7:02 | 10.0 | 9.96 | 99.6 |
| **PFDA** | | 7:34 | 10.0 | 8.12 | 81.2 |
| **PFUnA** | | 7:54 | 10.0 | 9.64 | 96.4 |
| **PFDoA** | | 8:10 | 10.0 | 11.4 | 114 |
| **PFTrDA** | | 8:30 | 10.0 | 10.1 | 101 |
| **PFTeDA** | | 8:55 | 10.0 | 10.1 | 101 |
| **PFBS** | | 4:51 | 10.0 | 10.2 | 102 |
| **PFPeS** | | 5:25 | 10.0 | 10.5 | 105 |
| **PFHxS** | | 6:17 | 10.0 | 10.1 | 101 |
| **PFHpS** | | 7:09 | 10.0 | 9.75 | 97.5 |
| **PFOS** | | 7:40 | 10.0 | 9.45 | 94.5 |
| **PFNS** | | 7:59 | 10.0 | 11.1 | 111 |
| **PFDS** | | 8:16 | 10.0 | 9.41 | 94.1 |
| **PFDoS** | | 9:06 | 10.0 | 9.68 | 96.8 |
| **4:2 FTS** | | 4:46 | 40.0 | 42.6 | 106 |
| **6:2 FTS** | | 5:51 | 36.0 | 35.2 | 97.9 |
| **8:2 FTS** | | 7:23 | 40.0 | 40.9 | 102 |
| **PFOSA** | | 8:45 | 10.0 | 10.3 | 103 |
| **N-MeFOSA** | | 10:12 | 11.5 | 11.9 | 104 |
| **N-EtFOSA** | | 10:30 | 25.0 | 23.4 | 93.5 |
| **MeFOSAA** | | 7:37 | 10.0 | 9.81 | 98.1 |
| **EtFOSAA** | | 7:46 | 10.0 | 9.90 | 99.0 |
| **N-MeFOSE** | | 10:04 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:23 | 75.0 | 78.1 | 104 |
| **HFPO-DA** | | 5:03 | 40.0 | 39.7 | 99.1 |
| **ADONA** | | 5:38 | 40.0 | 41.7 | 104 |
| **9Cl-PF3ONS** | | 7:54 | 40.0 | 44.9 | 112 |
| **11Cl-PF3OUdS** | | 8:31 | 40.0 | 42.4 | 106 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_086 S: 10 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 20-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:30:18 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:57 | 40.0 | 39.8 | 99.5 |
| **13C5-PFPeA** | | 4:18 | 20.0 | 20.5 | 103 |
| **13C5-PFHxA** | | 4:53 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:23 | 10.0 | 10.4 | 104 |
| **13C8-PFOA** | | 6:10 | 10.0 | 10.4 | 104 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.12 | 102 |
| **13C6-PFDA** | | 7:34 | 5.00 | 5.24 | 105 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 5.00 | 100 |
| **13C2-PFDoA** | | 8:10 | 5.00 | 4.50 | 90.0 |
| **13C2-PFTeDA** | | 8:55 | 5.00 | 4.53 | 90.7 |
| **13C3-PFBS** | | 4:51 | 9.18 | 9.30 | 101 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 9.88 | 98.8 |
| **13C8-PFOS** | | 7:40 | 10.0 | 10.0 | 100 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 21.1 | 105 |
| **13C2-6:2 FTS** | | 5:51 | 20.0 | 23.0 | 115 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 22.6 | 113 |
| **13C8-PFOSA** | | 8:45 | 10.0 | 8.90 | 89.0 |
| **D3-N-MeFOSA** | | 10:11 | 10.0 | 9.91 | 99.1 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 9.78 | 97.8 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 19.5 | 97.3 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 19.8 | 98.9 |
| **d7-NMe-FOSE** | | 10:03 | 100 | 91.6 | 91.6 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 94.1 | 94.1 |
| **13C3-HFPO-DA** | | 5:03 | 40.0 | 40.8 | 102 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFOA_FC_LC_FC0L_086S10__Form4B_SJ2725427.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_086 S: 34 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 20-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 07:42:43 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 39.8 | 99.4 |
| **PFPeA** | | 4:19 | 20.0 | 20.3 | 101 |
| **PFHxA** | | 4:54 | 10.0 | 9.52 | 95.2 |
| **PFHpA** | | 5:23 | 10.0 | 9.67 | 96.7 |
| **PFOA** | | 6:11 | 10.0 | 9.43 | 94.3 |
| **PFNA** | | 7:02 | 10.0 | 9.93 | 99.3 |
| **PFDA** | | 7:34 | 10.0 | 9.69 | 96.9 |
| **PFUnA** | | 7:54 | 10.0 | 9.87 | 98.7 |
| **PFDoA** | | 8:10 | 10.0 | 10.4 | 104 |
| **PFTrDA** | | 8:29 | 10.0 | 10.2 | 102 |
| **PFTeDA** | | 8:55 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:51 | 10.0 | 9.79 | 97.9 |
| **PFPeS** | | 5:25 | 10.0 | 10.5 | 105 |
| **PFHxS** | | 6:17 | 10.0 | 10.3 | 103 |
| **PFHpS** | | 7:09 | 10.0 | 9.82 | 98.2 |
| **PFOS** | | 7:40 | 10.0 | 8.77 | 87.7 |
| **PFNS** | | 7:59 | 10.0 | 7.32 | 73.2 |
| **PFDS** | | 8:16 | 10.0 | 10.3 | 103 |
| **PFDoS** | | 9:06 | 10.0 | 9.69 | 96.9 |
| **4:2 FTS** | | 4:46 | 40.0 | 47.2 | 118 |
| **6:2 FTS** | | 5:51 | 36.0 | 34.4 | 95.7 |
| **8:2 FTS** | | 7:23 | 40.0 | 44.2 | 110 |
| **PFOSA** | | 8:45 | 10.0 | 10.2 | 102 |
| **N-MeFOSA** | | 10:11 | 11.5 | 12.6 | 109 |
| **N-EtFOSA** | | 10:30 | 25.0 | 25.4 | 102 |
| **MeFOSAA** | | 7:37 | 10.0 | 9.07 | 90.7 |
| **EtFOSAA** | | 7:46 | 10.0 | 10.1 | 101 |
| **N-MeFOSE** | | 10:04 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:23 | 75.0 | 76.5 | 102 |
| **HFPO-DA** | | 5:03 | 40.0 | 39.1 | 97.7 |
| **ADONA** | | 5:38 | 40.0 | 40.0 | 100 |
| **9Cl-PF3ONS** | | 7:53 | 40.0 | 41.7 | 104 |
| **11Cl-PF3OUdS** | | 8:31 | 40.0 | 43.1 | 108 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2; Report Filename: PFOA_FC_LC_FC0L_086S34__Form4A_SJ2725460.html; Workgroup: WG71801; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 14-Jan-2020 | **VER Data Filename:** | FC0L_086 S: 34 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 20-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 07:42:43 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:57 | 40.0 | 39.9 | 99.8 |
| **13C5-PFPeA** | | 4:19 | 20.0 | 20.8 | 104 |
| **13C5-PFHxA** | | 4:53 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:23 | 10.0 | 10.2 | 102 |
| **13C8-PFOA** | | 6:10 | 10.0 | 10.0 | 100 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.91 | 98.2 |
| **13C6-PFDA** | | 7:34 | 5.00 | 5.50 | 110 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 5.28 | 106 |
| **13C2-PFDoA** | | 8:10 | 5.00 | 5.07 | 101 |
| **13C2-PFTeDA** | | 8:54 | 5.00 | 4.96 | 99.2 |
| **13C3-PFBS** | | 4:51 | 9.18 | 10.1 | 110 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 9.88 | 98.8 |
| **13C8-PFOS** | | 7:39 | 10.0 | 10.9 | 109 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 20.7 | 103 |
| **13C2-6:2 FTS** | | 5:51 | 20.0 | 23.7 | 118 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 22.8 | 114 |
| **13C8-PFOSA** | | 8:45 | 10.0 | 9.71 | 97.1 |
| **D3-N-MeFOSA** | | 10:11 | 10.0 | 10.4 | 104 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 10.6 | 106 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 21.0 | 105 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 20.2 | 101 |
| **d7-NMe-FOSE** | | 10:03 | 100 | 104 | 104 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 109 | 109 |
| **13C3-HFPO-DA** | | 5:03 | 40.0 | 42.7 | 107 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 26-Mar-2020 14:13:04; Application: XMLTransformer-1.18.2;
Report Filename: PFOA_FC_LC_FC0L_086S34__Form4B_SJ2725460.html; Workgroup: WG71801; Design ID: 3769 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

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| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | Y | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
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| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| V | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG72193**

**Analysis WG71744 / WG71745**

## 21 April 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES** **PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**
**4095:** L32744-1 to -30

**Project name: P1007/60608807**
**Work order number: 3000025335**

**21 April 2020**

## NARRATIVE

This narrative describes the analysis of thirty aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The sample was received at SGS AXYS on the 28th of February 2020. The temperature of the samples upon receipt ranged from 1.9˚C to 5.8˚C, slightly exceeding the method recommended arrival temperature of 0-4°C for some samples. The samples were stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in two analysis batches designated as WG71744 and WG71745; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of a procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, a matrix spike sample (MS), and a duplicate of the matrix spike sample (MSD). The lab blank and OPRs were prepared using Canadian Springs water as the matrix. Sample RC17A-WAT-BULK-03-022420 (SGS AXYS ID: L32744-13) was used as the parent sample for the MS/MSD pair in WG71744. Sample WL9-WAT-BULK-03-022520 (SGS AXYS ID: L32744-27) was used as the parent sample for the MS/MSD pair in WG71745.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 500 mL of sample was accurately weighed. The samples RC5-FOAM-01-022420, RC7A-FOAM-01-022420, WL9-WAT-SML-02-022520 and WL6-FOAM-01-022520 (SGS AXYS ID: L32744-6, -9, -24, and -30, respectively) were spiked with 10x nominal isotopically labeled quantification standards, extracted, split 1/10th and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. The rest of the samples were spiked with isotopically labeled quantification standards and extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L32744-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix, and was combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
N = dilution of the sample extract followed by instrumental analysis

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
N = authentic recovery in the OPR is not within method or contract control limits
U = identifies a compound that was not detected
V = surrogate recovery was not within method specifications
E = exceeds calibrated linear range, see dilution data
X = result reported separately
D = dilution data
R = peak detected but did not meet quantification criteria

Results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

## QA/QC NOTES

The samples and QC samples were analyzed in two analysis batches and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank, and labeled compound recovery specifications were met with the following exceptions:

### *WG71744*

An interference was observed affecting PFNS in samples RC5-FOAM-01-022420 and RC7A-FOAM-01-022420 (SGS AXYS ID: L32744-6 and -9, respectively) and has been flagged with 'R' on the report form. The reported concentration of this analyte should be interpreted as the 'estimated' maximum concentration.

The Relative Percent Difference (RPD) value of above 30% was observed for analyte PFDoA between the Matrix Spike and the Matrix Spike duplicate (SGS AXYS ID: WG71744-103 and -104, respectively). Overall, there was good agreement in target analyte concentrations between the samples.

Percent recovery of labeled compounds $D_3$-N-MeFOSA and $D_5$-N-EtFOSA in the sample 8099 6432 5978 (SGS AXYS ID: L32744-3) and labeled compound $^{13}C_2$-PFTeDA in sample RC5-FOAM-01-022420 (SGS AXYS ID: L32744-6) were below the client nominal limit and were flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.

The analyst noted on the lab work-up sheet that a portion of the sample RC5-FOAM-01-022420 (SGS AXYS ID: L32744-6) did not go through the SPE column during extraction / clean-up procedure. This has been taken into account when calculating the reporting limits and labeled compound recoveries. Data are not considered to be significantly affected.

The sample listed below has been updated with a new Client ID as per client request.

| SGS AXYS ID | Client ID | Revised Client ID |
|---|---|---|
| L32744-15 | EP10-WAT-BULK-01-022520 | EP11-WAT-BULK-01-022520 |

***WG71745***

Percent recovery of analyte PFNS in the OPR (SGS AXYS ID: WG71745-102) was below the contract limit but within the SGS AXYS method limit and was flagged with an 'N'.

Percent recovery of analyte PFBA and PFOS in the Matrix Spike and Matrix Spike duplicate (SGS AXYS ID: WG71745-103 and -104, respectively) were below the contract limit.

Percent recovery of labeled compounds $^{13}C_2$-PFTeDA in the sample RC21-FOAM-01-022420 (SGS AXYS ID: L32744-22) and $^{13}C_4$-PFBA in the sample WL9-WAT-SML-02-022520 (SGS AXYS ID: L32744-24) were below the contract limit and was flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.

The analyst noted on the lab work-up sheet that a portion of the sample RC21-FOAM-01-022420 (SGS AXYS ID: L32744-22) did not go through the SPE column during extraction / clean-up procedure. This has been taken into account when calculating the reporting limits and labeled compound recoveries. Data are not considered to be significantly affected.

The sample listed below has been updated with a new Client ID as per client request.

| SGS AXYS ID | Client ID | Revised Client ID |
|---|---|---|
| L32744-16 | EP10-WAT-BULK-01-022520 | EP11-WAT-BULK-01-022520 |

**ANALYTICAL DISCUSSION**

***WG71744***

The samples RC3-WAT-BULK-01-022420, RC5-WAT-BULK-01-022420, and RC5-FOAM-01-022420 (SGS AXYS ID: L32744-4, -5, and -6, respectively) were diluted and instrumentally re-analyzed to bring the area response of some targets to within the calibrated linear range of the instrument. The affected target concentrations are reported from the diluted extract (indicated by suffix '**N**' on the SGS AXYS ID). The dilution factors are provided on the reports for the dilution analyses.

***WG71745***

The samples RC21-FOAM-01-022420 and WL6-FOAM-01-022520 (SGS AXYS ID: L32744-22, and -30, respectively) were diluted and instrumentally re-analyzed to bring the area response of some targets to within the calibrated linear range of the instrument. The affected target concentrations are reported from the diluted extract (indicated by suffix '**N**' on the SGS AXYS ID). The dilution factors are provided on the reports for the dilution analyses.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72193. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation

- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo — 21-Apr-20

Signed: Bryan Alonzo, B. Sc., Data Validation Chemist — Date Signed

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**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 06**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue and AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] |
|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 530-2100 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 |
| Perfluoroalkyl sulfonates | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Fluorotelomer sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | 40 |
| Perfluorooctane sulfonamides | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 530 | 0.08 | 0.16 | 0.2 | 10 |
| Perfluorooctane sulfonamide ethanols | 8 | 5300 | 0.8 | 1.6 | 2.0 | 100 |
| Per- and polyfluoroether carboxylates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |
| Ether sulfonates | 3.2 | 2100 | 0.32 | 0.64 | 0.8 | N/A |

1 Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

2 A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

3 A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

4 A maximum of 2 g of tissue may be analyzed.

5 A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. Other AFFF products such as fluoroprotein foams maybe be analyzed using this method, but need special handling. Consult product Safety Data Sheets (SDS) and other information before confirming. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS.

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Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

### Perfluorooctane sulfonamidoacetic acids

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)


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**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)

Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction

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(SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**List of Surrogate and Recovery Standards**

| Surrogate Standards | Recovery Standards |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_4$-PFOA |
| $^{13}C_4$-PFHpA | $^{13}C_5$-PFNA |
| $^{13}C_8$-PFOA | $^{13}C_2$-PFDA |
| $^{13}C_9$-PFNA | $^{18}O_2$-PFHxS |
| $^{13}C_6$-PFDA | $^{13}C_4$-PFOS |
| $^{13}C_7$-PFUnA | |
| $^{13}C_2$-PFDoA | |
| $^{13}C_2$-PFTeDA | |
| $^{13}C_3$-PFBS | |
| $^{13}C_3$-PFHxS | |
| $^{13}C_8$-PFOS | |
| $^{13}C_2$-4:2 FTS | |
| $^{13}C_2$-6:2 FTS | |

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| | |
|---|---|
| $^{13}C_2$-8:2 FTS | |
| $^{13}C_8$-PFOSA | |
| $D_3$-N-MeFOSA | |
| $D_5$-N-EtFOSA | |
| $D_3$-N-MeFOSAA | |
| $D_5$-N-EtFOSAA | |
| $D_7$-N-MeFOSE | |
| $D_9$-N-EtFOSE | |
| $^{13}C_3$-HFPO-DA | |

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where} \quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

## 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes and Quantification References

| Target analytes | Quantified using |
|---|---|
| PFBA | $^{13}C_4$-PFBA |
| PFPeA | $^{13}C_5$-PFPeA |
| PFHxA | $^{13}C_5$-PFHxA |
| PFHpA | $^{13}C_4$-PFHpA |
| PFOA | $^{13}C_8$-PFOA |
| PFNA | $^{13}C_9$-PFNA |
| PFDA | $^{13}C_6$-PFDA |
| PFUnA | $^{13}C_7$-PFUnA |
| PFDoA | $^{13}C_2$-PFDoA |
| PFTrDA | $^{13}C_2$-PFTeDA |
| PFTeDA | $^{13}C_2$-PFTeDA |
| PFBS | $^{13}C_3$-PFBS [1] |
| PFPeS | $^{13}C_3$-PFHxS |
| PFHxS | $^{13}C_3$-PFHxS |
| PFHpS | $^{13}C_8$-PFOS |
| PFOS | $^{13}C_8$-PFOS |
| PFNS | $^{13}C_8$-PFOS |
| PFDS | $^{13}C_8$-PFOS |
| PFDoS | $^{13}C_8$-PFOS |
| 4:2 FTS | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | $^{13}C_2$-8:2 FTS |
| PFOSA | $^{13}C_8$-PFOSA |
| N-MeFOSA | $D_3$-N-MeFOSA |
| N-EtFOSA | $D_5$-N-EtFOSA |
| N-MeFOSAA | $D_3$-N-MeFOSAA |
| N-EtFOSAA | $D_5$-N-EtFOSAA |
| N-MeFOSE | $D_7$-N-MeFOSE |
| N-EtFOSE | $D_9$-N-EtFOSE |
| HFPO-DA | $^{13}C_3$-HFPO-DA |
| ADONA | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | $^{13}C_3$-HFPO-DA |

[1] If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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| Surrogate standards | Quantified using |
|---|---|
| $^{13}C_4$-PFBA | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | $^{13}C_4$-PFOA |
| $^{13}C_8$-PFOA | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_9$-PFNA | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | $^{13}C_4$-PFOS |
| $^{13}C_2$-4:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | $^{13}C_2$-PFHxA |
| **Recovery standards** | **Quantified using** |
| $^{13}C_3$-PFBA | External |
| $^{13}C_2$-PFHxA | External |
| $^{13}C_4$-PFOA | External |
| $^{13}C_5$-PFNA | External |
| $^{13}C_2$-PFDA | External |
| $^{18}O_2$-PFHxS | External |
| $^{13}C_4$-PFOS | External |
| $^{13}C_3$-PFBA | External |

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) |
|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 |

Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater

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## DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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### QC Specifications for Aqueous, Solid, AFFF and Tissue Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid And AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] |
|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 |
| | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 |
| | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 |
| | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] |
| $D_5$-N-EtFOSA | 20-150 | [2] |
| | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] |
| $D_5$-N-EtFOSAA | 50-150 | [2] |
| | | |
| $D_7$-N-MeFOSE | 30-150 | [2] |
| $D_9$-N-EtFOSE | 30-150 | [2] |
| | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

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## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL. |

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| QC Parameter | Specification |
|---|---|
| | Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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SGS AXYS Analytical Services Ltd, 2045 Mills Road W., Sidney, BC, Canada, V8L 5X2. Tel. (250) 655-5800, fax (250) 655-5811.
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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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**SGS AXYS Analytical Services Ltd.**

# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90 day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies. For aqueous samples under DoD accreditation, the sample hold time is ≤14 days.

[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement. For samples under DoD accreditation the extract hold time is ≤28 days with storage at room temperature.

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## SGS AXYS Analytical Services Ltd.

### Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG72193** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG71744-101 |
| OPR | WG71744-102 |
| MATRIX SPIKE | WG71744-103 |
| MATRIX SPIKE DUPLICATE | WG71744-104 |
| | |
| 8099 6432 5967 | L32744-1 |
| 8099 6432 5989 | L32744-2 |
| 8099 6432 5978 | L32744-3 |
| RC3-WAT-BULK-01-022420 | L32744-4 |
| RC5-WAT-BULK-01-022420 | L32744-5 |
| RC5-FOAM-01-022420 | L32744-6 |
| RC7A-WAT-BULK-01-022420 | L32744-7 |
| RC14-WAT-BULK-01-022420 | L32744-8 |
| RC7A-FOAM-01-022420 | L32744-9 |
| RC17A-WAT-SML-01-022420 | L32744-10 |
| RC17A-WAT-BULK-01-022420 | L32744-11 |
| RC17A-WAT-BULK-02-022420 | L32744-12 |
| RC17A-WAT-BULK-03-022420 | L32744-13 |
| EP8-WAT-BULK-01-022520 | L32744-14 |
| EP11-WAT-BULK-01-022520 | L32744-15 |
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# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG72193** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG71745-101 |
| OPR | WG71745-102 |
| MATRIX SPIKE | WG71745-103 |
| MATRIX SPIKE DUPLICATE | WG71745-104 |
| | |
| EP11-WAT-BULK-02-022520 | L32744-16 |
| EP16-WAT-BULK-01-022520 | L32744-17 |
| EP19-WAT-BULK-01-022520 | L32744-18 |
| EP20-WAT-BULK-01-022520 | L32744-19 |
| RC18-WAT-BULK-01-022520 | L32744-20 |
| RC21-WAT-BULK-01-022420 | L32744-21 |
| RC21-FOAM-01-022420 | L32744-22 |
| WL9-WAT-SML-01-022520 | L32744-23 |
| WL9-WAT-SML-02-022520 | L32744-24 |
| WL9-WAT-BULK-01-022520 | L32744-25 |
| WL9-WAT-BULK-02-022520 | L32744-26 |
| WL9-WAT-BULK-03-022520 | L32744-27 |
| WL7-WAT-BULK-01-022520 | L32744-28 |
| WL6-WAT-BULK-01-022520 | L32744-29 |
| WL6-FOAM-01-022520 | L32744-30 |
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SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | EBlp Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-022420 | W | 2/24/20 | 1010 | HDPE/4 | L32744 -4 | X | | | |
| RC5-WAT-BULK-01-022420 | W | 2/24/20 | 1315 | HDPE/4 | -5 | X | | | |
| RC5-FOAM-01-022420 | W | 2/24/20 | 1300 | HDPE/1 500 mL | -6 | X | | | |
| RC7A-WAT-BULK-01-022420 | W | 2/24/20 | 1720 | HDPE/4 | -7 | X | | | |
| RC14-WAT-BULK-01-022420 | W | 2/24/20 | 1800 | HDPE/4 | -8 | X | | | |
| RC7A-FOAM-01-022420 | W | 2/24/20 | 1725 | 1 60mL | -9 | X | | | |
| RC17A-WAT-SMC-01-022420 | W | 2/24/20 | 1520 | HDPE/1 | -10 | X | | | |
| RC17A-WAT-BULK-01-022420 | W | 2/24/20 | 1530 | HDPE/4 | -11 | X | | | |
| RC17A-WAT-BULK-02-022420 | W | 2/24/20 | 1535 | HDPE/4 | -12 | X | | | |
| RC17A-WAT-BULK-03-022420 | W | 2/24/20 | 1540 | HDPE/4 | -13 | X | X | X | |
| 8099 6432 5967 | W | 2/25/20 | — | HDPE/1 | L32744-1 | X | | | X |

Relinquished by (Signature) Date 2/26/20 Time 1200
Received by (Signature) Date 28Feb2020 Time 0910

Relinquished by (Signature) Date 2/26/20 Time 1300
Received by (Signature) Date Time

Courier: FedEx
Waybill No.: 8099 6432 5967

Remarks
RC17A-WAT-BULK-03-022420 = MS AND MSD
RC5-FOAM-01-022420, just one 500-mL (high concentration)
RC7A-FOAM-01-022420, just one 60-mL (high concentration)

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | EBlank |
|---|---|---|---|---|---|---|---|---|---|
| EP8-WAT-BULK-01-022520 | W | 02-25-20 | 1730 | HDPE/4 | L32744 -14 | X | | | |
| EP10-WAT-BULK-01-022520 | W | 02-25-20 | 1050 | HDPE/4 | -15 | X | | | |
| EP10-WAT-BULK-02-022520 | W | 02-25-20 | 1055 | HDPE/4 | -16 | X | | | |
| EP16-WAT-BULK-01-022520 | W | 02-25-20 | 1110 | HDPE/4 | -17 | X | | | |
| EP19-WAT-BULK-01-022520 | W | 02-25-20 | 1245 | HDPE/4 | -18 | X | | | |
| EP20-WAT-BULK-01-022520 | W | 02-25-20 | 1800 | HDPE/4 | -19 | X | | | |
| RC18-WAT-BULK-01-022520 | W | 02-25-20 | 1045 | HDPE/4 | -20 | X | | | |
| RC21-WAT-BULK-01-022420 | W | 02-24-20 | 1715 | HDPE/4 | -21 | X | | | |
| RC21-FOAM-01-022420 | W | 02-24-20 | 1700 | HDPE/1 | -22 | X | | | |
| 8099 6432 5989 | W | 02-25-20 | — | HDPE/1 | L32744 -2 | | | | X |
| | | | | | | | | | |

Relinquished by (Signature) Date 2/26/20 Time 1200
Received by (Signature) Date 28 Feb 2020 Time 09:10
Courier: FedEx
Waybill No.: 8099 6432 5989

Relinquished by (Signature) Date 2/26/20 Time 1300
Received by (Signature) Date Time

Remarks: Suspected high concentrations in RC21-FOAM-01-022420 (1 HDPE, 500mL)

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | EB/FB Blank |
|---|---|---|---|---|---|---|---|---|---|
| WL9-WAT-SML-01-022520 | W | 02/25/2020 | 1500 | HDPE/1 | L32744 -23 | X | | | |
| WL9-WAT-SML-02-022520 | W | 02/25/2020 | 1515 | HDPE/1 | -24 | X | | | |
| WL9-WAT-BULK-01-022520 | W | 02/25/2020 | 1525 | HDPE/4 | -25 | X | | | |
| WL9-WAT-BULK-02-022520 | W | 02/25/2020 | 1530 | HDPE/4 | -26 | X | | | |
| WL9-WAT-BULK-03-022520 | W | 02/25/2020 | 1535 | HDPE/8 | -27 | X | X | X | |
| WL7-WAT-BULK-01-022520 | W | 02/25/2020 | 1700 | HDPE/4 | -28 | X | | | |
| WL6-WAT-BULK-01-022520 | W | 02/25/2020 | 1610 | HDPE/4 | -29 | X | | | |
| WL6-FOAM-01-022520 | W | 02/25/2020 | 1630 | HDPE/1 | -30 | X | | | |
| 8099 6432 5978 | W | 02/25/2020 | — | HDPE/1 | L32744-3 | | | | X |
| | | | | | | | | | |
| | | | | | | | | | |

Relinquished by (Signature): [signature] Date: 2/26/20 Time: 1200
Received by (Signature): [signature] Date: 28 Feb 2020 Time: 09:10

Relinquished by (Signature): [signature] Date: 2/26/20 Time: 1300
Received by (Signature): Date: Time:

Courier: FedEx
Waybill No.: 8099 6432 5978

Remarks:
- Suspected high concentration samples:
  WL6-FOAM-01-022520
  WL9-WAT-SML-01-022520
  WL9-WAT-SML-02-022520
- MS and MSD: WL9-WAT-BULK-03-022520

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

# FedEx Express International Air Waybill

4095

FedEx Tracking Number 8099 6432 5978 Form ID No. 0402 **Origin Copy**

**1 From**

Date 02/26/20 Sender's FedEx Account Number 1410-8393-7

Sender's Name Andrew Tarara Phone 612-376-2452

Company AECOM

Address 800 LaSalle Ave, Ste 1100

Address

City Minneapolis State Province MN

Country USA ZIP Postal Code 55402

**2 To**

Recipient's Name Sample Receiving Phone 250-655-5800

Company SGS AXYS Analytical

Address 2045 Mills Rd W Dept/Floor

Address

City Sidney State Province BC

Country Canada ZIP Postal Code V8L 5X2

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

**3 Shipment Information** ☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 29.3 ☒ lbs. ☐ kg DIM 24 / 14 / 12 ☒ in. ☐ cm

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| HDPE Bottles for water samples | 3923.0 | USA | $101 |

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☒ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) 101 USD

**4 Express Package Service** *Packages up to 150 lbs. / 68 kg* — For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

1 ☒ FedEx Intl. Priority 6 ☐ FedEx Intl. First (Available to select locations.)
☐ 3 ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

**5 Packaging** *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☒ Other cooler PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

**6 Special Handling**

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only)

**7 Payment** Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:* Enter FedEx Acct. No. or Credit Card No. below.

1 ☒ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check/Cheque

FedEx Acct. No. [redacted] Total Transportation

Credit Card Exp. Date Specify Currency

*Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☒ Recipient 3 ☐ Third Party 5 ☐ Cash/Check/Cheque

FedEx Acct. No.

**8 Your Internal Billing Reference** First 24 characters will appear on invoice.

**9 Required Signature**

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:** *This is not authorization to deliver this shipment without a recipient signature.*

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature:

568

PART 158410 Rev. Date 11/08 ©1994–2008 FedEx PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6432 5978 Form ID No. 0402

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units 1 |
|---|---|---|---|
| STPKS | CA XQYYJA | | Total Volume (cm) |

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☒ World Service Center 5 ☐ Station Forms Attached: ☐ CI ☐ CO

Base Charges Declared Val. Chrg. Other ODA/OPA Credit Card Auth.

FedEx Emp. # 3804179 Audit Emp. # Date 2-26 Time 2:41 Del. Courier Emp. # Date Time

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

RRDA 12/15

4095

ORIGIN ID:JDTA (612) 376-2452
ANDREW TARARA
AECOM
800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 26FEB20
ACTWGT: 39.30 LB
CAD: 6992596/SSF02021

DIMS: 23x14x12 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RRDB EXP 9/19

TO **ATTN SAMPLE RECEIVING**
**SGS AXYS ANALYTICAL**
**2045 MILLS RD W**

**Sidney, BC V8L5X2**

**CANADA, CA**

(250) 655-5800

**FedEx** Express

**(CA)**

**AWB**

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J2010200 1/1 3200 A0

09:10

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FEB 28 2020
DPar

**XQ YYJA**

**PKG:YOUR PKG**

TRK# **8099 6432 5978** Form 0402

**AM**
**INTL PRIORITY**

REF:
DESC1:SAMPLES - 1L HDPE BOTTLES CONTAINING ULTRA PURE WATER SAMPLE
DESC2:SAMPLES - 500 ML HDPE BOTTLES CONTAINING GROUND WATER SAMPLE
DESC3:SAMPLES - 60 ML HDPE BOTTLES CONTAINING GROUND WATER SAMPLES
DESC4:
EEI: NO EEI 30.36

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COUNTRY MFG: US US US
CARRIAGE VALUE: 101.00 USD
CUSTOMS VALUE: 101.00 USD

SIGN: ANDREW TARARA
T/C: 0 141083937
D/T: 0 141083937

bagged wet ice, melted
4.6
5686

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

# FedEx Express International Air Waybill

FedEx Tracking Number 8099 6432 5989 4095 Form ID No. 0402 **Origin Copy**

**1 From**

Date 02/26/20 Sender's FedEx Account Number 1410-8393-7

Sender's Name Andrew Tarara Phone 612-376-2452

Company AECOM

Address 800 LaSalle Ave, Ste 1100

Address ~~Minneapolis~~

City Minneapolis State Province MN

Country USA ZIP Postal Code 55402

**2 To**

Recipient's Name Sample Receiving Phone 250-655-5800

Company SGS AXYS Analytical

Address 2045 Mills Rd W Dept./Floor

Address

City Sidney State Province BC

Country Canada ZIP Postal Code V8L5X2

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

**3 Shipment Information** ☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC _____ Total Weight 122 lbs. ☐ kg ☐ DIM 73 / W / H in. ☑ cm ☐

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| HDPE Bottles for water samples | | USA | 122 |

Has EEI been filed in AES? For U.S. Export Only: Check One
☑ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage 122

Total Value for Customs (Specify Currency) 122 USD

**4 Express Package Service** *Packages up to 150 lbs. / 68 kg* For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

1 ☑ FedEx Intl. Priority 6 ☐ FedEx Intl. First Available to select locations.
☐ _____ 3 ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

**5 Packaging** *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☑ Other Cooler PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

**6 Special Handling**

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only

**7 Payment** Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☑ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque

Total Transportation

FedEx Acct. No. 3628-6306-1 [redacted]

Credit Card Exp. Date Specify Currency

*Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☑ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No.

**8 Your Internal Billing Reference** First 24 characters will appear on invoice.

**9 Required Signature**

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:** [signature]

*This is not authorization to deliver this shipment without a recipient signature.*

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature:

568

PART 158410 Rev. Date 11/08 ©1994–2008 FedEx PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6432 5989 0402 Form ID No.

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units |
|---|---|---|---|
| STPKS | CA XQ YYJa | | 1 |

Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☑ World Service Center 5 ☐ Station

Forms Attached: ☑ CI ☐ CO

Base Charges _____ Declared Val. Chrg. _____ Other _____ ODA/OPA _____ Credit Card Auth. _____

FedEx Emp. # 3806179 Audit Emp. # _____ Date 2-26 Time 2:03 Del. Courier Emp. # _____ Date 2-2 Time _____

RRDA 12/15

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

4095

ORIGIN ID:JDTA (612) 376-2452
ANDREW TARARA
AECOM
800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 26FEB20
ACTWGT: 45.20 LB
CAD: 6992596/SSF02021

DIMS: 23x14x12 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RISE EXP 08/20

TO **ATTN SAMPLE RECEIVING**
**SGS AXYS ANALYTICAL**
**2045 MILLS RD W**

**Sidney, BC V8L5X2**

**CANADA, CA**

(250) 655-5800

**FedEx**
Express

**(CA)**

**E**

**AWB**

J201020013 2/AN

**XQ YYJA**

**PKG:YOUR PKG**

TRK# **8099 6432 5989**

Form
0402

**AM**
**INTL PRIORITY**

REF:
DESC1:SAMPLES - 1L HDPE BOTTLES CONTAING ULTRA PURE WATER SAMPLES
DESC2:SAMPLES - 500 ML HEPE BOTTLES CONTAINING GROUND WATER SAMPLE
DESC3:SAMPLES - 60 ML HDPE BOTTLES CONTAINING GROUND WATER SAMPLES
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US US US
CARRIAGE VALUE: 122.00 USD
CUSTOMS VALUE: 122.00 USD

SIGN: ANDREW TARARA
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

09:10

RECEIVE
FEB 28 2020
DPam

bagged wet Ice, melted
6.0
5600

# FedEx Express International Air Waybill

FedEx Tracking Number 8099 6432 5967 Form ID No. 0402 4095

**Origin Copy**

## 1 From

Date 02/26/20 Sender's FedEx Account Number 1410-8393-7

Sender's Name Andrew Tarara Phone 612-376-2452

Company AECOM

Address 800 LaSalle Ave, Ste 1100

Address

City Minneapolis State Province MN

Country ZIP Postal Code 55402

## 2 To

Recipient's Name Sample Receiving Phone 2506555800

Company SGS Axys Analytical

Address Dept./Floor

Address 2045 Mills Rd W

City Sidney State Province BC

Country CA ZIP Postal Code V8L5X2

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

## 3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 44.9 lbs. ☒ kg ☐ DIM 14 / 13 / 11 in. ☒ cm ☐

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| HDPE Bottles for water samples | 382.0 | USA | ~~[illegible]~~ $115.00 |

Has EEI been filed in AES? For U.S. Export Only: Check One
☒ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage 115

Total Value for Customs (Specify Currency) 115 USD

## 4 Express Package Service

*Packages up to 150 lbs. / 68 kg*
*For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

1 ☒ FedEx Intl. Priority 6 ☐ FedEx Intl. First Available to select locations.

☐ 3 ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

## 5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube

1 ☒ Other Cooler PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

## 6 Special Handling

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

## 7 Payment

Complete payment options for both transportation charges and duties and taxes.

*Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque

Total Transportation

FedEx Acct. No. 3678-6306-4 [redacted] 150

Credit Card Exp. Date Specify Currency

*Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☒ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No.

## 8 Your Internal Billing Reference

First 24 characters will appear on invoice.

## 9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

**Sender's Signature:** [signature]

*This is not authorization to deliver this shipment without a recipient signature.*

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature:

568

PART 158410
Rev. Date 11/08
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PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6432 5967 0402 Form ID No.

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units |
|---|---|---|---|
| STPKS | CA XQYYJA | | 1 |
| | | | Total Volume (cm) |

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☒ World Service Center 5 ☐ Station

Forms Attached: ☐ CI ☐ CO

Base Charges Declared Val. Chrg. Other ODA/OPA Credit Card Auth.

FedEx Emp. # 3804179 Audit Emp. # Date 2-26 Time 2:11 Del. Courier Emp. # Date Time

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

RRDA 12/15

4095

ORIGIN ID:JDTA (612) 376-2452
ANDREW TARARA
AECOM
800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 26FEB20
ACTWGT: 44.90 LB
CAD: 6992596/SSF02021

DIMS: 14x13x11 IN
BILL THIRD PARTY
EIN/VAT:

TO ATTN SAMPLE REECIVING
SGS AXYS ANALYTICAL
2045 MILLS RD W

Sidney, BC V8L5X2

CANADA, CA

(250) 655-5800

FedEx Express

(CA)

AWB

XQ YYJA

PKG:YOUR PKG

TRK# 8099 6432 5967

Form 0402

AM
INTL PRIORITY

REF:
DESC1:SAMPLES - 500ML HDPE BOTTLES CONTAINING GROUND WATER SAMPLES
DESC2:SAMPLES - 1L HDPE BOTTLES CONTAINING ULTRA PURE WATER SAMPLE
DESC3:SAMPLES - 60 ML HDPE BOTTLES CONTAINING GROUND WATER SAMPLES
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US US US
CARRIAGE VALUE: 115.00 USD
CUSTOMS VALUE: 115.00 USD

SIGN: ANDREW TARARA
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

FEDEX AWB COPY — PLEASE PLACE IN POUCH

09:10

RECEIVED
FEB 28 2020

bagged wet ice, melted

2.1
5689

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 26-FEB-20

Waybill #: 809964325967
Date /Time Received: 28-FEB-20 09:10
Receipt No: WB27224

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: DPAYNE

Log in by: DNP Signature: DPayne

Axys Sample ID's: L327744-1, -4 to -13

Matrix Type: AQ

Condition of Shipping Container: Intact

Temperature upon Receipt: 2.1 Celcius bagged wet ice

Thermometer ID: 5689
Corrected Temperature: 1.9 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No DNP 28Feb2020

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 26-FEB-20

Waybill #: 809964325989
Date /Time Received: 28-FEB-20 09:10
Receipt No: WB27223

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: DPAYNE

Log in by: DNP

Signature:

Axys Sample ID's: L32744-2, -14 to -22

Matrix Type: AQ

Condition of Shipping Container: intact

Thermometer ID: 5688

Corrected Temperature: 5.8 Celcius

Temperature upon Receipt: 6 Celcius bagged wet ice, melted

Samples received above temperature: Yes /No

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Custody Seals: | Shipping Containers | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |
| | Samples | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 26-FEB-20

Waybill #: 809964325978
Date /Time Received: 28-FEB-20 09:10
Receipt No: WB27225

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: DPAYNE
Log in by: DNP
Signature: DPayne

Axys Sample ID's: L327744-3, -23 to -30

Matrix Type: AQ
Condition of Shipping Container: Intact
Temperature upon Receipt: 4.6 Celcius bagged wet ice, melted

Thermometer ID: 5686
Corrected Temperature: 4.4 Celcius
Samples received above temperature: Yes /No

| Custody Seals: | | | | | | | |
|---|---|---|---|---|---|---|---|
| Shipping Containers | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |
| Samples | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

DNP 28 Feb 2020

| | | | |
|---|---|---|---|
| Sample Container breakage | Yes /No | If yes, see sample transfer documentation | |
| Sample Lid breakage | Yes /No | | |

Comments:

FSA-015 Rev10, 19-Jun-2019

For scanning
DPR
02-Mar-2020

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-1** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| 8099 6432 5967 | FIELDQC | | | |
| 25-FEB-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L32744-2** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| 8099 6432 5989 | FIELDQC | | | |
| 25-FEB-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L32744-3** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| 8099 6432 5978 | FIELDQC | | | |
| 25-FEB-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L32744-4** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC3-WAT-BULK-01-022420 | S016-051 | | | |
| 24-FEB-20 10:10 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-5** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC5-WAT-BULK-01-022420 | S016-189 | | | |
| 24-FEB-20 13:15 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-6** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC5-FOAM-01-022420 | S016-189 | | | |
| 24-FEB-20 13:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L32744-7** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC7A-WAT-BULK-01-022420 | S016-054 | | | |
| 24-FEB-20 17:20 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-8** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC14-WAT-BULK-01-22420 | S016-063 | | | |
| 24-FEB-20 18:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-9** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC7A-FOAM-01-022420 | S016-054 | | | |
| 24-FEB-20 17:25 | Project #: TIM LOCKREM 2019 | | | |
| Comments: Sample fills less than half of 60mL bottle | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 60 mL plastic | USD |
| **L32744-10** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC17A-WAT-SML-01-022420 | S016-067 | | | |
| 24-FEB-20 15:20 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-11** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC17A-WAT-BULK-01-022420<br>24-FEB-20 15:30 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-12** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC17A-WAT-BULK-02-022420<br>24-FEB-20 15:35 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-13** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC17A-WAT-BULK-03-022420<br>24-FEB-20 15:40 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-14** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| EP8-WAT-BULK-01-022520<br>25-FEB-20 17:30 | 82-0109-00-211<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-15** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| EP10-WAT-BULK-01-022520<br>25-FEB-20 10:50 | PI00001<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-16** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| EP10-WAT-BULK-02-022520<br>25-FEB-20 10:55 | PI00001<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-17** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| EP16-WAT-BULK-01-022520 | S016-234 | | | |
| 25-FEB-20 11:10 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-18** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| EP19-WAT-BULK-01-022520 | 82-0109-00-453 | | | |
| 25-FEB-20 12:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-19** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| EP20-WAT-BULK-01-022520 | 82-0109-00-454 | | | |
| 25-FEB-20 18:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-20** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC18-WAT-BULK-01-022520 | 82-0109-00-208 | | | |
| 25-FEB-20 10:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-21** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC21-WAT-BULK-01-022420 | S016-280 | | | |
| 24-FEB-20 17:15 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-22** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| RC21-FOAM-01-022420 | S016-280 | | | |
| 24-FEB-20 17:00 | Project #: TIM LOCKREM 2019 | | | |
| Comments: Sample fills about one third of 500mL bottle | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-23** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL9-WAT-SML-01-022520 | PS00168 | | | |
| 25-FEB-20 15:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L32744-24** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL9-WAT-SML-02-022520 | PS00168 | | | |
| 25-FEB-20 15:15 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L32744-25** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL9-WAT-BULK-01-022520 | PS00168 | | | |
| 25-FEB-20 15:25 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-26** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL9-WAT-BULK-02-022520 | PS00168 | | | |
| 25-FEB-20 15:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-27** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL9-WAT-BULK-03-022520 | PS00168 | | | |
| 25-FEB-20 15:35 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-28** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL7-WAT-BULK-01-022520 | S016-072 | | | |
| 25-FEB-20 17:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Mar. 02, 2020*
*04:12 PM*

**Login Number:** L32744
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L32744-29** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL6-WAT-BULK-01-022520 | S016-071 | | | |
| 25-FEB-20 16:10 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L32744-30** | | 28-FEB-20 | | |
| | Storage: WIF-4 Floor Bins near 7 | | | |
| WL6-FOAM-01-022520 | S016-071 | | | |
| 25-FEB-20 16:30 | Project #: TIM LOCKREM 2019 | | | |
| Comments: Sample Fills half of 60mL bottle | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**Contract:** 4095

**Date:** 28-Feb-2020

**Initials:** DWP

| Axys ID | Client ID | | Sampling Date&Time | | Missing | Damaged Label | Other/Comments: |
|---|---|---|---|---|---|---|---|
| | COC | Client Label (if discrepancy) | COC | Client Label (if discrepancy) | | | |
| L32744-1 | 8099 6432 5967 | PFAS TRIP BLANK | | | | | |
| L32744-2 | 8099 6432 5989 | PFAS TRIP BLANK | | | | | |
| L32744-3 | 8099 6432 5978 | PFAS TRIP BLANK | | | | | |
| L32744-4 | RC3-WAT-BULK-01-022420 | | | | | | |
| L32744-5 | RC5-WAT-BULK-01-022420 | | | | | | |
| L32744-6 | RC5-FOAM-01-022420 | | | | | | |
| L32744-7 | RC7A-WAT-BULK-01-022420 | | | | | | |
| L32744-8 | RC14-WAT-BULK-01-22420 | | | | | | |
| L32744-9 | RC7A-FOAM-01-022420 | | | | | | |
| L32744-10 | RC17A-WAT-SML-01-022420 | | | | | | |
| L32744-11 | RC17A-WAT-BULK-01-022420 | | | | | | |
| L32744-12 | RC17A-WAT-BULK-02-022420 | | | | | | |
| L32744-13 | RC17A-WAT-BULK-03-022420 | | | | | | |
| L32744-14 | EP8-WAT-BULK-01-022520 | | | | | | |
| L32744-15 | EP10-WAT-BULK-01-022520 | | | | | | |
| L32744-16 | EP10-WAT-BULK-02-022520 | | | | | | |
| L32744-17 | EP16-WAT-BULK-01-022520 | | | | | | |
| L32744-18 | EP19-WAT-BULK-01-022520 | | | | | | |
| L32744-19 | EP20-WAT-BULK-01-022520 | | | | | | |
| L32744-20 | RC18-WAT-BULK-01-022520 | | | | | | |

L32744-21 RC21-WAT-BULK-01-022420
L32744-22 RC21-FOAM-01-022520
L32744-23 WL9-WAT-SML-01-022520
L32744-24 WL9-WAT-SML-02-022520
L32744-25 WL9-WAT-BULK-01-022520
L32744-26 WL9-WAT-BULK-02-022520
L32744-27 WL9-WAT-BULK-03-022520
L32744-28 WL7-WAT-BULK-01-022520
L32744-29 WL6-WAT-BULK-01-022520
L32744-30 WL6-FOAM-01-022520

4095

WB27224

L327744-1
L327744-4 to -13

WB27223

L327744-2
L327744-14 to -22

Processed By DNP
28-Feb-2020

WB27225

L327744-3
~~L327744~~ DNP 28Feb2020
L327744-23 to -30

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**8099 6432 5967**
**Sample Collection:**
**25-Feb-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.506 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:43:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.16 (L) | |
| **PFPeA** | U | | 1.58 (L) | |
| **PFHxA** | U | | 0.790 (L) | |
| **PFHpA** | U | | 0.790 (L) | |
| **PFOA** | U | | 0.790 (L) | |
| **PFNA** | U | | 0.790 (L) | |
| **PFDA** | U | | 0.790 (L) | |
| **PFUnA** | U | | 0.790 (L) | |
| **PFDoA** | U | | 0.790 (L) | |
| **PFTrDA** | U | | 0.790 (L) | |
| **PFTeDA** | U | | 0.790 (L) | |
| **PFBS** | U | | 0.790 (L) | |
| **PFPeS** | U | | 0.790 (L) | |
| **PFHxS** | U | | 0.790 (L) | |
| **PFHpS** | U | | 0.790 (L) | |
| **PFOS** | U | | 0.790 (L) | |
| **PFNS** | U | | 0.790 (L) | |
| **PFDS** | U | | 0.790 (L) | |
| **PFDoS** | U | | 0.790 (L) | |
| **4:2 FTS** | U | | 3.16 (L) | |
| **6:2 FTS** | U | | 2.85 (L) | |
| **8:2 FTS** | U | | 3.16 (L) | |
| **PFOSA** | U | | 0.790 (L) | |
| **N-MeFOSA** | U | | 0.909 (L) | |
| **N-EtFOSA** | U | | 1.98 (L) | |
| **MeFOSAA** | U | | 0.790 (L) | |
| **EtFOSAA** | U | | 0.790 (L) | |
| **N-MeFOSE** | U | | 7.90 (L) | |
| **N-EtFOSE** | U | | 5.93 (L) | |
| **HFPO-DA** | U | | 3.00 (L) | |
| **ADONA** | U | | 3.16 (L) | |
| **9Cl-PF3ONS** | U | | 3.16 (L) | |
| **11Cl-PF3OUdS** | U | | 3.16 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**8099 6432 5967**
**Sample Collection:**
**25-Feb-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.506 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:43:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.6 | 89.0 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 96.0 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.09 | 90.9 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.83 | 88.3 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.73 | 87.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.08 | 81.5 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.5 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.76 | 95.2 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.87 | 97.3 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.97 | 79.5 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.00 | 90.0 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.46 | 84.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.06 | 90.6 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 20.4 | 102 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 19.3 | 96.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.4 | 97.0 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.18 | 81.8 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 5.93 | 59.3 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.26 | 62.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 18.3 | 91.7 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 20.6 | 103 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 100 | 100 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 98.7 | 98.7 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 39.0 | 97.4 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-1_Form2_FC0L_082S48_SJ2731007.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**8099 6432 5989**
**Sample Collection:**
**25-Feb-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.502 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:56:53 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.19 (L) | |
| **PFPeA** | U | | 1.59 (L) | |
| **PFHxA** | U | | 0.797 (L) | |
| **PFHpA** | U | | 0.797 (L) | |
| **PFOA** | U | | 0.797 (L) | |
| **PFNA** | U | | 0.797 (L) | |
| **PFDA** | U | | 0.797 (L) | |
| **PFUnA** | U | | 0.797 (L) | |
| **PFDoA** | U | | 0.797 (L) | |
| **PFTrDA** | U | | 0.797 (L) | |
| **PFTeDA** | U | | 0.797 (L) | |
| **PFBS** | U | | 0.797 (L) | |
| **PFPeS** | U | | 0.797 (L) | |
| **PFHxS** | U | | 0.797 (L) | |
| **PFHpS** | U | | 0.797 (L) | |
| **PFOS** | U | | 0.797 (L) | |
| **PFNS** | U | | 0.797 (L) | |
| **PFDS** | U | | 0.797 (L) | |
| **PFDoS** | U | | 0.797 (L) | |
| **4:2 FTS** | U | | 3.19 (L) | |
| **6:2 FTS** | U | | 2.87 (L) | |
| **8:2 FTS** | U | | 3.19 (L) | |
| **PFOSA** | U | | 0.797 (L) | |
| **N-MeFOSA** | U | | 0.917 (L) | |
| **N-EtFOSA** | U | | 1.99 (L) | |
| **MeFOSAA** | U | | 0.797 (L) | |
| **EtFOSAA** | U | | 0.797 (L) | |
| **N-MeFOSE** | U | | 7.97 (L) | |
| **N-EtFOSE** | U | | 5.98 (L) | |
| **HFPO-DA** | U | | 3.03 (L) | |
| **ADONA** | U | | 3.19 (L) | |
| **9Cl-PF3ONS** | U | | 3.19 (L) | |
| **11Cl-PF3OUdS** | U | | 3.19 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-2_Form1A_FC0L_082S49_SJ2731008.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**8099 6432 5989**
**Sample Collection:**
**25-Feb-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.502 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:56:53 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.7 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.2 | 91.1 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.55 | 85.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.34 | 83.4 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.44 | 84.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.15 | 83.0 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.7 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.11 | 102 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.59 | 91.8 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.91 | 78.2 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.69 | 86.9 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.19 | 81.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.84 | 88.4 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.9 | 94.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 19.2 | 96.1 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.2 | 95.9 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.85 | 78.5 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 5.80 | 58.0 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 5.61 | 56.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 18.6 | 92.8 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.5 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 99.1 | 99.1 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 98.0 | 98.0 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.5 | 96.2 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-2_Form2_FC0L_082S49_SJ2731008.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**8099 6432 5978**
**Sample Collection:**
**25-Feb-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.505 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:09:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.17 (L) | |
| **PFPeA** | U | | 1.58 (L) | |
| **PFHxA** | U | | 0.792 (L) | |
| **PFHpA** | U | | 0.792 (L) | |
| **PFOA** | U | | 0.792 (L) | |
| **PFNA** | U | | 0.792 (L) | |
| **PFDA** | U | | 0.792 (L) | |
| **PFUnA** | U | | 0.792 (L) | |
| **PFDoA** | U | | 0.792 (L) | |
| **PFTrDA** | U | | 0.792 (L) | |
| **PFTeDA** | U | | 0.792 (L) | |
| **PFBS** | U | | 0.792 (L) | |
| **PFPeS** | U | | 0.792 (L) | |
| **PFHxS** | U | | 0.792 (L) | |
| **PFHpS** | U | | 0.792 (L) | |
| **PFOS** | U | | 0.792 (L) | |
| **PFNS** | U | | 0.792 (L) | |
| **PFDS** | U | | 0.792 (L) | |
| **PFDoS** | U | | 0.792 (L) | |
| **4:2 FTS** | U | | 3.17 (L) | |
| **6:2 FTS** | U | | 2.85 (L) | |
| **8:2 FTS** | U | | 3.17 (L) | |
| **PFOSA** | U | | 0.792 (L) | |
| **N-MeFOSA** | U | | 0.911 (L) | |
| **N-EtFOSA** | U | | 1.98 (L) | |
| **MeFOSAA** | U | | 0.792 (L) | |
| **EtFOSAA** | U | | 0.792 (L) | |
| **N-MeFOSE** | U | | 7.92 (L) | |
| **N-EtFOSE** | U | | 5.94 (L) | |
| **HFPO-DA** | U | | 3.01 (L) | |
| **ADONA** | U | | 3.17 (L) | |
| **9Cl-PF3ONS** | U | | 3.17 (L) | |
| **11Cl-PF3OUdS** | U | | 3.17 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-3_Form1A_FC0L_082S50_SJ2731009.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**8099 6432 5978**
**Sample Collection:**
**25-Feb-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.505 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:09:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 31.6 | 78.9 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 16.7 | 83.7 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 7.90 | 79.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.24 | 72.4 | 5:24 |
| **13C8-PFOA** | | 10.0 | 7.46 | 74.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.55 | 70.9 | 7:03 |
| **13C6-PFDA** | | 5.00 | 3.79 | 75.7 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.13 | 82.6 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.43 | 68.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 2.86 | 57.2 | 8:55 |
| **13C3-PFBS** | | 10.0 | 7.57 | 75.7 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 7.47 | 74.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 7.57 | 75.7 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 17.7 | 88.7 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.6 | 88.2 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.0 | 84.8 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 6.68 | 66.8 | 8:46 |
| **D3-N-MeFOSA** | V | 10.0 | 4.76 | 47.6 | 10:12 |
| **D5-N-EtFOSA** | V | 10.0 | 4.59 | 45.9 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 14.2 | 70.9 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 14.8 | 73.9 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 71.1 | 71.1 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 73.6 | 73.6 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 34.1 | 85.3 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-3_Form2_FC0L_082S50_SJ2731009.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 10:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:20:03 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 60** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 904 | 3.09 (L) | 1:58 |
| **PFPeA** | | 105 | 1.54 (L) | 4:19 |
| **PFHxA** | | 225 | 0.772 (L) | 4:54 |
| **PFHpA** | | 173 | 0.772 (L) | 5:23 |
| **PFOA** | E | | | |
| **PFNA** | | 9.49 | 0.772 (L) | |
| **PFDA** | | 10.2 | 0.772 (L) | 7:34 |
| **PFUnA** | U | | 0.772 (L) | |
| **PFDoA** | U | | 0.772 (L) | |
| **PFTrDA** | U | | 0.772 (L) | |
| **PFTeDA** | U | | 0.772 (L) | |
| **PFBS** | | 61.4 | 0.772 (L) | 4:51 |
| **PFPeS** | | 68.8 | 0.772 (L) | 5:25 |
| **PFHxS** | | 171 | 0.772 (L) | |
| **PFHpS** | | 53.6 | 0.772 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.772 (L) | |
| **PFDS** | U | | 0.772 (L) | |
| **PFDoS** | U | | 0.772 (L) | |
| **4:2 FTS** | U | | 3.09 (L) | |
| **6:2 FTS** | U | | 2.78 (L) | |
| **8:2 FTS** | U | | 3.09 (L) | |
| **PFOSA** | | 40.5 | 0.772 (L) | |
| **N-MeFOSA** | U | | 0.888 (L) | |
| **N-EtFOSA** | J | 3.18 | 1.93 (L) | |
| **MeFOSAA** | U | | 0.772 (L) | |
| **EtFOSAA** | | 240 | 0.772 (L) | |
| **N-MeFOSE** | U | | 7.72 (L) | |
| **N-EtFOSE** | | 18.2 | 5.79 (L) | |
| **HFPO-DA** | U | | 2.93 (L) | |
| **ADONA** | U | | 3.09 (L) | |
| **9Cl-PF3ONS** | U | | 3.09 (L) | |
| **11Cl-PF3OUdS** | U | | 3.09 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-4_Form1A_FC0L_082S60_SJ2731019.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 10:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:20:03 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 60** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.6 | 84.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 17.6 | 88.0 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.82 | 88.2 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 10.6 | 106 | 5:23 |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.3 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.86 | 97.3 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.84 | 76.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.89 | 77.8 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.78 | 87.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.62 | 86.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.99 | 89.9 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 26.6 | 133 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 15.1 | 75.7 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 17.0 | 85.1 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 11.6 | 116 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 11.1 | 111 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 11.2 | 112 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 22.4 | 112 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 28.9 | 145 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 123 | 123 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 129 | 129 | 10:21 |
| **13C3-HFPO-DA** | | 40.0 | 37.3 | 93.2 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-4_Form2_FC0L_082S60_SJ2731019.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 10:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-4 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:07:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 59** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | D | 1680 | 8.48 (S) | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 2940 | 3.86 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 10:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-4 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:07:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 59** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | D | 10.0 | 9.34 | 93.4 | 6:11 |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 8.62 | 86.2 | 7:40 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-4_Form2_FC0L_082S59_SJ2731018.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 13:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:22:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 764 | 2.96 (L) | 1:58 |
| **PFPeA** | | 66.2 | 1.48 (L) | 4:19 |
| **PFHxA** | | 141 | 0.740 (L) | 4:54 |
| **PFHpA** | | 107 | 0.740 (L) | 5:24 |
| **PFOA** | | 949 | 0.740 (L) | |
| **PFNA** | | 6.15 | 0.740 (L) | |
| **PFDA** | | 6.24 | 0.740 (L) | 7:34 |
| **PFUnA** | U | | 0.740 (L) | |
| **PFDoA** | U | | 0.740 (L) | |
| **PFTrDA** | U | | 0.740 (L) | |
| **PFTeDA** | U | | 0.740 (L) | |
| **PFBS** | | 34.0 | 0.740 (L) | 4:51 |
| **PFPeS** | | 35.2 | 0.740 (L) | 5:26 |
| **PFHxS** | | 93.3 | 0.740 (L) | |
| **PFHpS** | | 25.8 | 0.740 (L) | 7:10 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.740 (L) | |
| **PFDS** | U | | 0.740 (L) | |
| **PFDoS** | U | | 0.740 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.66 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | | 18.8 | 0.740 (L) | |
| **N-MeFOSA** | U | | 0.851 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.740 (L) | |
| **EtFOSAA** | | 26.8 | 0.740 (L) | |
| **N-MeFOSE** | U | | 7.40 (L) | |
| **N-EtFOSE** | U | | 5.55 (L) | |
| **HFPO-DA** | U | | 2.81 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-5_Form1A_FC0L_082S51_SJ2731010.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 13:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:22:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
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| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.3 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 18.7 | 93.5 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.27 | 92.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 9.77 | 97.7 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.82 | 88.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.30 | 86.1 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.89 | 97.7 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.30 | 106 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 5.04 | 101 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.14 | 82.9 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.08 | 90.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.94 | 89.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.26 | 92.6 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 22.6 | 113 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 14.7 | 73.7 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 16.6 | 83.0 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 10.2 | 102 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 10.2 | 102 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 9.95 | 99.5 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 22.6 | 113 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 25.6 | 128 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 133 | 133 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 140 | 140 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 41.0 | 102 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-5_Form2_FC0L_082S51_SJ2731010.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 13:15**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-5 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 04-Apr-2020 **Time:** 14:54:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_103 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_103 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 1400 | 3.70 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 13:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-5 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 04-Apr-2020 **Time:** 14:54:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_103 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_103 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 10.4 | 104 | 7:41 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-5_Form2_FC0L_103S23_SJ2732532.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 13:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.411 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:46:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 62** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 510 | 43.2 (L) | 1:57 |
| **PFPeA** | J | 43.8 | 21.6 (L) | 4:19 |
| **PFHxA** | J | 92.4 | 10.8 (L) | 4:54 |
| **PFHpA** | | 90.5 | 10.8 (L) | 5:24 |
| **PFOA** | | 1240 | 10.8 (L) | |
| **PFNA** | | 39.4 | 10.8 (L) | |
| **PFDA** | | 378 | 10.8 (L) | 7:34 |
| **PFUnA** | J | 21.7 | 10.8 (L) | 7:54 |
| **PFDoA** | U | | 10.8 (L) | |
| **PFTrDA** | U | | 10.8 (L) | |
| **PFTeDA** | U | | 10.8 (L) | |
| **PFBS** | J | 20.5 | 10.8 (L) | 4:51 |
| **PFPeS** | | 23.3 | 10.8 (L) | 5:26 |
| **PFHxS** | | 75.2 | 10.8 (L) | |
| **PFHpS** | | 78.8 | 10.8 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | R | 41.6 | 10.8 (L) | 7:59 |
| **PFDS** | J | 15.5 | 10.8 (L) | 8:16 |
| **PFDoS** | U | | 10.8 (L) | |
| **4:2 FTS** | U | | 43.2 (L) | |
| **6:2 FTS** | U | | 38.9 (L) | |
| **8:2 FTS** | U | | 43.2 (L) | |
| **PFOSA** | | 2960 | 10.8 (L) | |
| **N-MeFOSA** | J | 13.1 | 12.4 (L) | |
| **N-EtFOSA** | | 204 | 27.0 (L) | |
| **MeFOSAA** | | 27.4 | 10.8 (L) | |
| **EtFOSAA** | | 4010 | 10.8 (L) | |
| **N-MeFOSE** | U | | 108 (L) | |
| **N-EtFOSE** | U | | 81.1 (L) | |
| **HFPO-DA** | U | | 41.1 (L) | |
| **ADONA** | U | | 43.2 (L) | |
| **9Cl-PF3ONS** | U | | 43.2 (L) | |
| **11Cl-PF3OUdS** | U | | 43.2 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; R = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-6_Form1A_FC0L_082S62_SJ2731021.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 13:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.411 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:46:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 62** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 400 | 331 | 82.8 | 1:57 |
| **13C5-PFPeA** | | 200 | 187 | 93.5 | 4:19 |
| **13C5-PFHxA** | | 100 | 92.0 | 92.0 | 4:54 |
| **13C4-PFHpA** | | 100 | 89.3 | 89.3 | 5:23 |
| **13C8-PFOA** | | 100 | 85.6 | 85.6 | 6:11 |
| **13C9-PFNA** | | 50.0 | 40.4 | 80.9 | 7:03 |
| **13C6-PFDA** | | 50.0 | 45.0 | 90.1 | 7:34 |
| **13C7-PFUnA** | | 50.0 | 44.8 | 89.6 | 7:54 |
| **13C2-PFDoA** | | 50.0 | 31.9 | 63.8 | 8:10 |
| **13C2-PFTeDA** | V | 50.0 | 20.2 | 40.5 | 8:55 |
| **13C3-PFBS** | | 100 | 86.6 | 86.6 | 4:51 |
| **13C3-PFHxS** | | 100 | 84.7 | 84.7 | 6:17 |
| **13C8-PFOS** | | 100 | 92.9 | 92.9 | 7:40 |
| **13C2-4:2 FTS** | | 200 | 191 | 95.3 | 4:46 |
| **13C2-6:2 FTS** | | 200 | 197 | 98.7 | 5:52 |
| **13C2-8:2 FTS** | | 200 | 157 | 78.4 | 7:24 |
| **13C8-PFOSA** | | 100 | 111 | 111 | 8:46 |
| **D3-N-MeFOSA** | | 100 | 71.5 | 71.5 | 10:12 |
| **D5-N-EtFOSA** | | 100 | 63.8 | 63.8 | 10:30 |
| **D3-MeFOSAA** | | 200 | 282 | 141 | 7:37 |
| **D5-EtFOSAA** | | 200 | 263 | 131 | 7:45 |
| **d7-NMe-FOSE** | | 1000 | 840 | 84.0 | 10:03 |
| **d9-NEt-FOSE** | | 1000 | 888 | 88.8 | 10:22 |
| **13C3-HFPO-DA** | | 400 | 388 | 97.0 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-6_Form2_FC0L_082S62_SJ2731021.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 13:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-6 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.411 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:33:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 61** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 30700 | 108 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-6_Form1A_FC0L_082S61_SJ2731020.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 13:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-6 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.411 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:33:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 61** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 100 | 93.4 | 93.4 | 7:39 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-6_Form2_FC0L_082S61_SJ2731020.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7A-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 17:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:35:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 659 | 2.95 (L) | 1:58 |
| **PFPeA** | | 58.4 | 1.47 (L) | 4:19 |
| **PFHxA** | | 135 | 0.737 (L) | 4:54 |
| **PFHpA** | | 97.9 | 0.737 (L) | 5:24 |
| **PFOA** | | 880 | 0.737 (L) | |
| **PFNA** | | 5.33 | 0.737 (L) | |
| **PFDA** | | 5.12 | 0.737 (L) | 7:34 |
| **PFUnA** | U | | 0.737 (L) | |
| **PFDoA** | U | | 0.737 (L) | |
| **PFTrDA** | U | | 0.737 (L) | |
| **PFTeDA** | U | | 0.737 (L) | |
| **PFBS** | | 32.9 | 0.737 (L) | 4:52 |
| **PFPeS** | | 35.6 | 0.737 (L) | 5:26 |
| **PFHxS** | | 84.5 | 0.737 (L) | |
| **PFHpS** | | 22.1 | 0.737 (L) | 7:10 |
| **PFOS** | | 1370 | 0.737 (L) | |
| **PFNS** | U | | 0.737 (L) | |
| **PFDS** | U | | 0.737 (L) | |
| **PFDoS** | U | | 0.737 (L) | |
| **4:2 FTS** | U | | 2.95 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.95 (L) | |
| **PFOSA** | | 16.8 | 0.737 (L) | |
| **N-MeFOSA** | U | | 0.847 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.737 (L) | |
| **EtFOSAA** | | 16.1 | 0.737 (L) | |
| **N-MeFOSE** | U | | 7.37 (L) | |
| **N-EtFOSE** | U | | 5.53 (L) | |
| **HFPO-DA** | U | | 2.80 (L) | |
| **ADONA** | U | | 2.95 (L) | |
| **9Cl-PF3ONS** | U | | 2.95 (L) | |
| **11Cl-PF3OUdS** | U | | 2.95 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-7_Form1A_FC0L_082S52_SJ2731011.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7A-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 17:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:35:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.9 | 89.8 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.6 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.39 | 93.9 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 10.1 | 101 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.02 | 90.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.50 | 90.0 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.80 | 96.1 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.14 | 103 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.57 | 91.3 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.71 | 74.2 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.27 | 92.7 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 9.15 | 91.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.94 | 89.4 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 21.9 | 110 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.6 | 82.9 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.3 | 91.7 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 10.0 | 100 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 9.12 | 91.2 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 8.81 | 88.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 21.7 | 109 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 23.6 | 118 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 108 | 108 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 112 | 112 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 40.3 | 101 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-7_Form2_FC0L_082S52_SJ2731011.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 18:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-8 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.471 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:48:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 88.4 | 3.40 (L) | 1:58 |
| **PFPeA** | | 6.32 | 1.70 (L) | 4:19 |
| **PFHxA** | J | 4.27 | 0.850 (L) | 4:54 |
| **PFHpA** | J | 2.32 | 0.850 (L) | 5:24 |
| **PFOA** | | 7.32 | 0.850 (L) | |
| **PFNA** | U | | 0.850 (L) | |
| **PFDA** | U | | 0.850 (L) | |
| **PFUnA** | U | | 0.850 (L) | |
| **PFDoA** | U | | 0.850 (L) | |
| **PFTrDA** | U | | 0.850 (L) | |
| **PFTeDA** | U | | 0.850 (L) | |
| **PFBS** | | 2.62 | 0.850 (L) | 4:52 |
| **PFPeS** | U | | 0.850 (L) | |
| **PFHxS** | | 3.15 | 0.850 (L) | |
| **PFHpS** | U | | 0.850 (L) | |
| **PFOS** | | 2.03 | 0.850 (L) | |
| **PFNS** | U | | 0.850 (L) | |
| **PFDS** | U | | 0.850 (L) | |
| **PFDoS** | U | | 0.850 (L) | |
| **4:2 FTS** | U | | 3.40 (L) | |
| **6:2 FTS** | U | | 3.06 (L) | |
| **8:2 FTS** | U | | 3.40 (L) | |
| **PFOSA** | U | | 0.850 (L) | |
| **N-MeFOSA** | U | | 0.977 (L) | |
| **N-EtFOSA** | U | | 2.12 (L) | |
| **MeFOSAA** | U | | 0.850 (L) | |
| **EtFOSAA** | U | | 0.850 (L) | |
| **N-MeFOSE** | U | | 8.50 (L) | |
| **N-EtFOSE** | U | | 6.37 (L) | |
| **HFPO-DA** | U | | 3.23 (L) | |
| **ADONA** | U | | 3.40 (L) | |
| **9Cl-PF3ONS** | U | | 3.40 (L) | |
| **11Cl-PF3OUdS** | U | | 3.40 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-8_Form1A_FC0L_082S53_SJ2731012.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 18:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-8 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.471 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 04:48:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.9 | 87.2 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 19.7 | 98.3 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.51 | 95.1 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.90 | 89.0 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.04 | 90.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.28 | 85.7 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.01 | 100 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.5 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.54 | 70.7 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.79 | 75.8 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.89 | 88.9 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 9.01 | 90.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.04 | 90.4 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 19.8 | 99.1 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.7 | 88.4 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.29 | 82.9 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.90 | 69.0 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.71 | 67.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 18.8 | 93.8 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 18.1 | 90.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 82.7 | 82.7 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 81.6 | 81.6 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.5 | 93.8 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-8_Form2_FC0L_082S53_SJ2731012.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7A-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 17:25**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.00500 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:59:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 63** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3180 (L) | |
| **PFPeA** | U | | 1590 (L) | |
| **PFHxA** | U | | 796 (L) | |
| **PFHpA** | U | | 796 (L) | |
| **PFOA** | | 5210 | 796 (L) | |
| **PFNA** | U | | 796 (L) | |
| **PFDA** | | 8200 | 796 (L) | 7:34 |
| **PFUnA** | | 1800 | 796 (L) | 7:54 |
| **PFDoA** | U | | 796 (L) | |
| **PFTrDA** | U | | 796 (L) | |
| **PFTeDA** | U | | 796 (L) | |
| **PFBS** | U | | 796 (L) | |
| **PFPeS** | U | | 796 (L) | |
| **PFHxS** | U | | 796 (L) | |
| **PFHpS** | U | | 796 (L) | |
| **PFOS** | | 531000 | 796 (L) | |
| **PFNS** | R | 2950 | 796 (L) | 7:59 |
| **PFDS** | | 3160 | 796 (L) | 8:16 |
| **PFDoS** | U | | 796 (L) | |
| **4:2 FTS** | U | | 3180 (L) | |
| **6:2 FTS** | U | | 2870 (L) | |
| **8:2 FTS** | U | | 3180 (L) | |
| **PFOSA** | | 103000 | 796 (L) | |
| **N-MeFOSA** | | 5310 | 915 (L) | |
| **N-EtFOSA** | | 54100 | 1990 (L) | |
| **MeFOSAA** | J | 1320 | 796 (L) | |
| **EtFOSAA** | | 96400 | 796 (L) | |
| **N-MeFOSE** | U | | 7960 (L) | |
| **N-EtFOSE** | U | | 5970 (L) | |
| **HFPO-DA** | U | | 3020 (L) | |
| **ADONA** | U | | 3180 (L) | |
| **9Cl-PF3ONS** | U | | 3180 (L) | |
| **11Cl-PF3OUdS** | U | | 3180 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; R = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-9_Form1A_FC0L_082S63_SJ2731022.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7A-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 17:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.00500 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 06:59:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 63** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 400 | 362 | 90.5 | 1:57 |
| **13C5-PFPeA** | | 200 | 194 | 97.2 | 4:19 |
| **13C5-PFHxA** | | 100 | 96.8 | 96.8 | 4:54 |
| **13C4-PFHpA** | | 100 | 92.4 | 92.4 | 5:24 |
| **13C8-PFOA** | | 100 | 90.0 | 90.0 | 6:11 |
| **13C9-PFNA** | | 50.0 | 42.3 | 84.6 | 7:03 |
| **13C6-PFDA** | | 50.0 | 47.1 | 94.2 | 7:34 |
| **13C7-PFUnA** | | 50.0 | 49.2 | 98.4 | 7:54 |
| **13C2-PFDoA** | | 50.0 | 43.9 | 87.8 | 8:10 |
| **13C2-PFTeDA** | | 50.0 | 44.1 | 88.2 | 8:55 |
| **13C3-PFBS** | | 100 | 95.8 | 95.8 | 4:51 |
| **13C3-PFHxS** | | 100 | 90.9 | 90.9 | 6:17 |
| **13C8-PFOS** | | 100 | 91.3 | 91.3 | 7:40 |
| **13C2-4:2 FTS** | | 200 | 211 | 106 | 4:46 |
| **13C2-6:2 FTS** | | 200 | 204 | 102 | 5:52 |
| **13C2-8:2 FTS** | | 200 | 216 | 108 | 7:24 |
| **13C8-PFOSA** | | 100 | 98.6 | 98.6 | 8:46 |
| **D3-N-MeFOSA** | | 100 | 98.7 | 98.7 | 10:12 |
| **D5-N-EtFOSA** | | 100 | 98.7 | 98.7 | 10:30 |
| **D3-MeFOSAA** | | 200 | 209 | 104 | 7:37 |
| **D5-EtFOSAA** | | 200 | 217 | 108 | 7:46 |
| **d7-NMe-FOSE** | | 1000 | 1090 | 109 | 10:03 |
| **d9-NEt-FOSE** | | 1000 | 1200 | 120 | 10:22 |
| **13C3-HFPO-DA** | | 400 | 385 | 96.1 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-9_Form2_FC0L_082S63_SJ2731022.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-SML-01-022420**
**Sample Collection:**
**24-Feb-2020 15:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.482 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:01:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 88.0 | 3.32 (L) | 1:58 |
| **PFPeA** | | 6.56 | 1.66 (L) | 4:19 |
| **PFHxA** | J | 4.67 | 0.831 (L) | 4:54 |
| **PFHpA** | J | 2.47 | 0.831 (L) | 5:24 |
| **PFOA** | | 8.14 | 0.831 (L) | |
| **PFNA** | J | 0.939 | 0.831 (L) | |
| **PFDA** | U | | 0.831 (L) | |
| **PFUnA** | U | | 0.831 (L) | |
| **PFDoA** | U | | 0.831 (L) | |
| **PFTrDA** | U | | 0.831 (L) | |
| **PFTeDA** | U | | 0.831 (L) | |
| **PFBS** | | 2.49 | 0.831 (L) | 4:52 |
| **PFPeS** | U | | 0.831 (L) | |
| **PFHxS** | | 3.58 | 0.831 (L) | |
| **PFHpS** | U | | 0.831 (L) | |
| **PFOS** | | 5.08 | 0.831 (L) | |
| **PFNS** | U | | 0.831 (L) | |
| **PFDS** | U | | 0.831 (L) | |
| **PFDoS** | U | | 0.831 (L) | |
| **4:2 FTS** | U | | 3.32 (L) | |
| **6:2 FTS** | U | | 2.99 (L) | |
| **8:2 FTS** | U | | 3.32 (L) | |
| **PFOSA** | U | | 0.831 (L) | |
| **N-MeFOSA** | U | | 0.955 (L) | |
| **N-EtFOSA** | U | | 2.08 (L) | |
| **MeFOSAA** | U | | 0.831 (L) | |
| **EtFOSAA** | U | | 0.831 (L) | |
| **N-MeFOSE** | U | | 8.31 (L) | |
| **N-EtFOSE** | U | | 6.23 (L) | |
| **HFPO-DA** | U | | 3.16 (L) | |
| **ADONA** | U | | 3.32 (L) | |
| **9Cl-PF3ONS** | U | | 3.32 (L) | |
| **11Cl-PF3OUdS** | U | | 3.32 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-10_Form1A_FC0L_082S54_SJ2731013.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-SML-01-022420**
**Sample Collection:**
**24-Feb-2020 15:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.482 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:01:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 31.9 | 79.9 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.5 | 92.7 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.89 | 88.9 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.54 | 85.4 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.07 | 90.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.13 | 82.6 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.61 | 92.2 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.06 | 101 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.50 | 90.0 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.27 | 65.4 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.03 | 90.3 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.58 | 85.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.24 | 92.4 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.8 | 94.2 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.6 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 16.9 | 84.3 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.89 | 78.9 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.50 | 75.0 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.06 | 70.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 18.2 | 91.0 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 17.8 | 89.0 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 83.9 | 83.9 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 85.8 | 85.8 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 36.3 | 90.8 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-10_Form2_FC0L_082S54_SJ2731013.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 15:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-11 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.541 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:15:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 87.8 | 2.96 (L) | 1:58 |
| **PFPeA** | | 6.33 | 1.48 (L) | 4:19 |
| **PFHxA** | J | 4.43 | 0.740 (L) | 4:54 |
| **PFHpA** | J | 2.03 | 0.740 (L) | 5:24 |
| **PFOA** | | 7.46 | 0.740 (L) | |
| **PFNA** | U | | 0.740 (L) | |
| **PFDA** | U | | 0.740 (L) | |
| **PFUnA** | U | | 0.740 (L) | |
| **PFDoA** | U | | 0.740 (L) | |
| **PFTrDA** | U | | 0.740 (L) | |
| **PFTeDA** | U | | 0.740 (L) | |
| **PFBS** | | 2.63 | 0.740 (L) | 4:51 |
| **PFPeS** | U | | 0.740 (L) | |
| **PFHxS** | | 3.06 | 0.740 (L) | |
| **PFHpS** | U | | 0.740 (L) | |
| **PFOS** | | 1.91 | 0.740 (L) | |
| **PFNS** | U | | 0.740 (L) | |
| **PFDS** | U | | 0.740 (L) | |
| **PFDoS** | U | | 0.740 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.66 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | U | | 0.740 (L) | |
| **N-MeFOSA** | U | | 0.850 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.740 (L) | |
| **EtFOSAA** | U | | 0.740 (L) | |
| **N-MeFOSE** | U | | 7.40 (L) | |
| **N-EtFOSE** | U | | 5.55 (L) | |
| **HFPO-DA** | U | | 2.81 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-11_Form1A_FC0L_082S55_SJ2731014.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 15:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-11 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.541 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:15:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.1 | 82.6 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.5 | 97.5 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.70 | 97.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.15 | 81.5 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.39 | 83.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.18 | 83.5 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.46 | 89.2 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.71 | 94.2 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.52 | 70.4 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 2.95 | 59.1 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.51 | 85.1 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.35 | 83.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.29 | 92.9 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 19.8 | 98.8 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.5 | 87.5 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.2 | 91.2 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.67 | 76.7 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.61 | 66.1 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.04 | 60.4 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.9 | 84.6 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 17.7 | 88.4 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 73.2 | 73.2 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 72.4 | 72.4 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 39.1 | 97.7 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-11_Form2_FC0L_082S55_SJ2731014.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-02-022420**
**Sample Collection:**
**24-Feb-2020 15:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-12 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:27:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 89.0 | 2.96 (L) | 1:58 |
| **PFPeA** | | 6.33 | 1.48 (L) | 4:19 |
| **PFHxA** | J | 4.55 | 0.741 (L) | 4:54 |
| **PFHpA** | J | 2.45 | 0.741 (L) | 5:24 |
| **PFOA** | | 7.71 | 0.741 (L) | |
| **PFNA** | J | 0.746 | 0.741 (L) | |
| **PFDA** | U | | 0.741 (L) | |
| **PFUnA** | U | | 0.741 (L) | |
| **PFDoA** | U | | 0.741 (L) | |
| **PFTrDA** | U | | 0.741 (L) | |
| **PFTeDA** | U | | 0.741 (L) | |
| **PFBS** | | 2.67 | 0.741 (L) | 4:52 |
| **PFPeS** | U | | 0.741 (L) | |
| **PFHxS** | | 3.25 | 0.741 (L) | |
| **PFHpS** | U | | 0.741 (L) | |
| **PFOS** | | 2.36 | 0.741 (L) | |
| **PFNS** | U | | 0.741 (L) | |
| **PFDS** | U | | 0.741 (L) | |
| **PFDoS** | U | | 0.741 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | U | | 0.741 (L) | |
| **N-MeFOSA** | U | | 0.852 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.741 (L) | |
| **EtFOSAA** | U | | 0.741 (L) | |
| **N-MeFOSE** | U | | 7.41 (L) | |
| **N-EtFOSE** | U | | 5.56 (L) | |
| **HFPO-DA** | U | | 2.82 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-12_Form1A_FC0L_082S56_SJ2731015.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-02-022420**
**Sample Collection:**
**24-Feb-2020 15:35**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-12 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:27:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 31.0 | 77.5 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 17.7 | 88.4 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.32 | 83.2 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.86 | 78.6 | 5:24 |
| **13C8-PFOA** | | 10.0 | 7.92 | 79.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.85 | 76.9 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.2 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.03 | 101 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.01 | 80.2 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.18 | 63.5 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.08 | 80.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 7.85 | 78.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.49 | 84.9 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.5 | 92.4 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.7 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.1 | 90.7 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.52 | 75.2 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.54 | 65.4 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.30 | 63.0 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.3 | 86.5 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 18.3 | 91.5 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 84.4 | 84.4 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 87.0 | 87.0 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 36.2 | 90.4 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-12_Form2_FC0L_082S56_SJ2731015.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420**
**Sample Collection:**
**24-Feb-2020 15:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-13 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.350 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:25:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 65** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 89.7 | 4.57 (L) | 1:58 |
| **PFPeA** | | 6.50 | 2.28 (L) | 4:19 |
| **PFHxA** | J | 4.86 | 1.14 (L) | 4:54 |
| **PFHpA** | J | 1.99 | 1.14 (L) | 5:24 |
| **PFOA** | | 7.80 | 1.14 (L) | |
| **PFNA** | U | | 1.14 (L) | |
| **PFDA** | U | | 1.14 (L) | |
| **PFUnA** | U | | 1.14 (L) | |
| **PFDoA** | U | | 1.14 (L) | |
| **PFTrDA** | U | | 1.14 (L) | |
| **PFTeDA** | U | | 1.14 (L) | |
| **PFBS** | | 2.76 | 1.14 (L) | 4:51 |
| **PFPeS** | U | | 1.14 (L) | |
| **PFHxS** | J | 3.40 | 1.14 (L) | |
| **PFHpS** | U | | 1.14 (L) | |
| **PFOS** | | 2.36 | 1.14 (L) | |
| **PFNS** | U | | 1.14 (L) | |
| **PFDS** | U | | 1.14 (L) | |
| **PFDoS** | U | | 1.14 (L) | |
| **4:2 FTS** | U | | 4.57 (L) | |
| **6:2 FTS** | U | | 4.11 (L) | |
| **8:2 FTS** | U | | 4.57 (L) | |
| **PFOSA** | U | | 1.14 (L) | |
| **N-MeFOSA** | U | | 1.31 (L) | |
| **N-EtFOSA** | U | | 2.85 (L) | |
| **MeFOSAA** | U | | 1.14 (L) | |
| **EtFOSAA** | U | | 1.14 (L) | |
| **N-MeFOSE** | U | | 11.4 (L) | |
| **N-EtFOSE** | U | | 8.56 (L) | |
| **HFPO-DA** | U | | 4.34 (L) | |
| **ADONA** | U | | 4.57 (L) | |
| **9Cl-PF3ONS** | U | | 4.57 (L) | |
| **11Cl-PF3OUdS** | U | | 4.57 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-13_Form1A_FC0L_082S65_SJ2731024.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420**
**Sample Collection:**
**24-Feb-2020 15:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-13 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.350 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:25:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 65** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.5 | 83.8 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 91.9 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.97 | 89.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.43 | 84.3 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.21 | 82.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.09 | 81.8 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.36 | 87.1 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.82 | 96.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.28 | 65.5 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.80 | 75.9 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.50 | 85.0 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.13 | 81.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.63 | 86.3 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 16.4 | 81.8 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 85.1 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.6 | 88.1 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.01 | 80.1 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.03 | 70.3 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 7.05 | 70.5 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 15.8 | 78.9 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 16.5 | 82.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 76.0 | 76.0 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 83.1 | 83.1 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.5 | 93.9 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-13_Form2_FC0L_082S65_SJ2731024.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP8-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 17:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-14 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.532 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:41:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 57** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 114 | 3.01 (L) | 1:58 |
| **PFPeA** | | 8.48 | 1.50 (L) | 4:19 |
| **PFHxA** | | 9.05 | 0.752 (L) | 4:54 |
| **PFHpA** | | 5.76 | 0.752 (L) | 5:24 |
| **PFOA** | | 38.5 | 0.916 (S) | |
| **PFNA** | J | 1.11 | 0.752 (L) | |
| **PFDA** | J | 1.24 | 0.752 (L) | 7:34 |
| **PFUnA** | U | | 0.752 (L) | |
| **PFDoA** | U | | 0.752 (L) | |
| **PFTrDA** | U | | 0.752 (L) | |
| **PFTeDA** | U | | 0.752 (L) | |
| **PFBS** | | 3.80 | 0.752 (L) | 4:51 |
| **PFPeS** | | 1.68 | 0.752 (L) | 5:26 |
| **PFHxS** | | 6.17 | 0.752 (L) | |
| **PFHpS** | J | 0.952 | 0.752 (L) | 7:10 |
| **PFOS** | | 109 | 0.752 (L) | |
| **PFNS** | U | | 0.752 (L) | |
| **PFDS** | U | | 0.752 (L) | |
| **PFDoS** | U | | 0.752 (L) | |
| **4:2 FTS** | U | | 3.01 (L) | |
| **6:2 FTS** | U | | 2.71 (L) | |
| **8:2 FTS** | U | | 3.01 (L) | |
| **PFOSA** | U | | 0.752 (L) | |
| **N-MeFOSA** | U | | 0.865 (L) | |
| **N-EtFOSA** | U | | 1.88 (L) | |
| **MeFOSAA** | U | | 0.752 (L) | |
| **EtFOSAA** | U | | 0.752 (L) | |
| **N-MeFOSE** | U | | 7.52 (L) | |
| **N-EtFOSE** | U | | 5.64 (L) | |
| **HFPO-DA** | U | | 2.86 (L) | |
| **ADONA** | U | | 3.01 (L) | |
| **9Cl-PF3ONS** | U | | 3.01 (L) | |
| **11Cl-PF3OUdS** | U | | 3.01 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-14_Form1A_FC0L_082S57_SJ2731016.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP8-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 17:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-14 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.532 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:41:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 57** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.5 | 83.8 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 17.1 | 85.5 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 7.90 | 79.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.94 | 79.4 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.11 | 81.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.92 | 78.4 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.16 | 83.2 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.26 | 85.3 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.73 | 74.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.08 | 61.5 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.53 | 85.3 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.16 | 81.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.77 | 87.7 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 19.5 | 97.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.6 | 83.0 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 14.0 | 70.0 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.38 | 73.8 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.74 | 67.4 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.47 | 64.7 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 14.6 | 73.1 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 21.1 | 105 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 82.1 | 82.1 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 83.6 | 83.6 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 35.2 | 88.1 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-14_Form2_FC0L_082S57_SJ2731016.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP11-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 10:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-15 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:54:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 58** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 813 | 2.95 (L) | 1:58 |
| **PFPeA** | | 16.8 | 1.47 (L) | 4:19 |
| **PFHxA** | | 16.3 | 0.737 (L) | 4:54 |
| **PFHpA** | | 6.14 | 0.737 (L) | 5:24 |
| **PFOA** | | 65.1 | 0.737 (L) | |
| **PFNA** | U | | 0.737 (L) | |
| **PFDA** | U | | 0.737 (L) | |
| **PFUnA** | U | | 0.737 (L) | |
| **PFDoA** | U | | 0.737 (L) | |
| **PFTrDA** | U | | 0.737 (L) | |
| **PFTeDA** | U | | 0.737 (L) | |
| **PFBS** | | 3.34 | 0.737 (L) | 4:52 |
| **PFPeS** | | 2.36 | 0.737 (L) | 5:26 |
| **PFHxS** | | 6.87 | 0.737 (L) | |
| **PFHpS** | J | 0.748 | 0.737 (L) | 7:10 |
| **PFOS** | | 55.2 | 0.737 (L) | |
| **PFNS** | U | | 0.737 (L) | |
| **PFDS** | U | | 0.737 (L) | |
| **PFDoS** | U | | 0.737 (L) | |
| **4:2 FTS** | U | | 2.95 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.95 (L) | |
| **PFOSA** | U | | 0.737 (L) | |
| **N-MeFOSA** | U | | 0.848 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.737 (L) | |
| **EtFOSAA** | U | | 0.737 (L) | |
| **N-MeFOSE** | U | | 7.37 (L) | |
| **N-EtFOSE** | U | | 5.53 (L) | |
| **HFPO-DA** | U | | 2.80 (L) | |
| **ADONA** | U | | 2.95 (L) | |
| **9Cl-PF3ONS** | U | | 2.95 (L) | |
| **11Cl-PF3OUdS** | U | | 2.95 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-15_Form1A_FC0L_082S58_SJ2731017.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP11-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 10:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-15 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 05:54:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 58** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.2 | 80.5 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 18.5 | 92.3 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.75 | 87.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.22 | 82.2 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.39 | 83.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.23 | 84.6 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.51 | 90.1 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.74 | 94.7 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.31 | 86.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.41 | 68.2 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.63 | 86.3 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.21 | 82.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.94 | 89.4 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 17.6 | 87.8 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.5 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.5 | 92.6 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 6.85 | 68.5 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.29 | 62.9 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.21 | 62.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.5 | 82.6 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 16.5 | 82.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 81.1 | 81.1 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 85.0 | 85.0 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.3 | 93.2 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-15_Form2_FC0L_082S58_SJ2731017.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP11-WAT-BULK-02-022520**
**Sample Collection:**
**25-Feb-2020 10:55**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-16 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 09:35:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 75** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 767 | 3.06 (L) | 1:59 |
| **PFPeA** | | 15.9 | 1.53 (L) | 4:19 |
| **PFHxA** | | 15.3 | 0.765 (L) | 4:54 |
| **PFHpA** | | 5.76 | 0.765 (L) | 5:24 |
| **PFOA** | | 63.6 | 0.765 (L) | |
| **PFNA** | U | | 0.765 (L) | |
| **PFDA** | U | | 0.765 (L) | |
| **PFUnA** | U | | 0.765 (L) | |
| **PFDoA** | U | | 0.765 (L) | |
| **PFTrDA** | U | | 0.765 (L) | |
| **PFTeDA** | U | | 0.765 (L) | |
| **PFBS** | | 3.34 | 0.765 (L) | 4:52 |
| **PFPeS** | | 2.29 | 0.765 (L) | 5:26 |
| **PFHxS** | | 6.82 | 0.765 (L) | |
| **PFHpS** | J | 0.888 | 0.765 (L) | 7:10 |
| **PFOS** | | 63.6 | 0.765 (L) | |
| **PFNS** | U | | 0.765 (L) | |
| **PFDS** | U | | 0.765 (L) | |
| **PFDoS** | U | | 0.765 (L) | |
| **4:2 FTS** | U | | 3.06 (L) | |
| **6:2 FTS** | U | | 2.75 (L) | |
| **8:2 FTS** | U | | 3.06 (L) | |
| **PFOSA** | U | | 0.765 (L) | |
| **N-MeFOSA** | U | | 0.879 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.765 (L) | |
| **EtFOSAA** | U | | 0.765 (L) | |
| **N-MeFOSE** | U | | 7.65 (L) | |
| **N-EtFOSE** | U | | 5.74 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 3.06 (L) | |
| **9Cl-PF3ONS** | U | | 3.06 (L) | |
| **11Cl-PF3OUdS** | U | | 3.06 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-16_Form1A_FC0L_082S75_SJ2730608.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP11-WAT-BULK-02-022520**
**Sample Collection:**
**25-Feb-2020 10:55**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-16 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 09:35:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 75** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.4 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 99.9 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.82 | 98.2 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 9.36 | 93.6 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.25 | 92.5 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.46 | 89.1 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.01 | 100 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 5.12 | 102 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 5.09 | 102 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.75 | 75.0 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.92 | 89.2 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.86 | 88.6 | 6:18 |
| **13C8-PFOS** | | 10.0 | 8.97 | 89.7 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.9 | 94.3 | 4:47 |
| **13C2-6:2 FTS** | | 20.0 | 18.9 | 94.5 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 16.9 | 84.6 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.64 | 76.4 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.37 | 73.7 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.31 | 73.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.6 | 88.2 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 18.6 | 93.2 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 81.0 | 81.0 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 80.5 | 80.5 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.9 | 97.3 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-16_Form2_FC0L_082S75_SJ2730608.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 11:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-17 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.526 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 09:48:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 76** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 543 | 3.04 (L) | 1:59 |
| **PFPeA** | | 13.6 | 1.52 (L) | 4:19 |
| **PFHxA** | | 12.3 | 0.760 (L) | 4:54 |
| **PFHpA** | | 6.17 | 0.760 (L) | 5:24 |
| **PFOA** | | 55.5 | 0.760 (L) | |
| **PFNA** | J | 0.897 | 0.760 (L) | |
| **PFDA** | U | | 0.760 (L) | |
| **PFUnA** | U | | 0.760 (L) | |
| **PFDoA** | U | | 0.760 (L) | |
| **PFTrDA** | U | | 0.760 (L) | |
| **PFTeDA** | U | | 0.760 (L) | |
| **PFBS** | | 3.50 | 0.760 (L) | 4:52 |
| **PFPeS** | | 1.99 | 0.760 (L) | 5:26 |
| **PFHxS** | | 6.78 | 0.760 (L) | |
| **PFHpS** | J | 1.10 | 0.760 (L) | 7:10 |
| **PFOS** | | 81.4 | 0.760 (L) | |
| **PFNS** | U | | 0.760 (L) | |
| **PFDS** | U | | 0.760 (L) | |
| **PFDoS** | U | | 0.760 (L) | |
| **4:2 FTS** | U | | 3.04 (L) | |
| **6:2 FTS** | U | | 2.74 (L) | |
| **8:2 FTS** | U | | 3.04 (L) | |
| **PFOSA** | U | | 0.760 (L) | |
| **N-MeFOSA** | U | | 0.874 (L) | |
| **N-EtFOSA** | U | | 1.90 (L) | |
| **MeFOSAA** | U | | 0.760 (L) | |
| **EtFOSAA** | U | | 0.760 (L) | |
| **N-MeFOSE** | U | | 7.60 (L) | |
| **N-EtFOSE** | U | | 5.70 (L) | |
| **HFPO-DA** | U | | 2.89 (L) | |
| **ADONA** | U | | 3.04 (L) | |
| **9Cl-PF3ONS** | U | | 3.04 (L) | |
| **11Cl-PF3OUdS** | U | | 3.04 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-17_Form1A_FC0L_082S76_SJ2730609.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 11:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-17 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.526 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 09:48:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 76** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.9 | 84.8 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.8 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.28 | 92.8 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.33 | 83.3 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.15 | 81.5 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.19 | 83.9 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.62 | 92.4 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 6.13 | 123 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.55 | 91.0 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.50 | 90.1 | 8:56 |
| **13C3-PFBS** | | 10.0 | 8.40 | 84.0 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.20 | 82.0 | 6:18 |
| **13C8-PFOS** | | 10.0 | 8.04 | 80.4 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 17.9 | 89.6 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.1 | 90.3 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.54 | 75.4 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.23 | 72.3 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.56 | 75.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.6 | 82.8 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 17.0 | 85.0 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 81.4 | 81.4 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 82.3 | 82.3 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.5 | 93.8 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-17_Form2_FC0L_082S76_SJ2730609.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 12:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-18 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.534 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:01:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 77** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 116 | 3.00 (L) | 1:58 |
| **PFPeA** | | 8.50 | 1.50 (L) | 4:19 |
| **PFHxA** | | 8.24 | 0.749 (L) | 4:54 |
| **PFHpA** | | 5.63 | 0.749 (L) | 5:24 |
| **PFOA** | | 38.0 | 0.879 (S) | |
| **PFNA** | J | 1.16 | 0.749 (L) | |
| **PFDA** | J | 0.960 | 0.749 (L) | 7:34 |
| **PFUnA** | U | | 0.749 (L) | |
| **PFDoA** | U | | 0.749 (L) | |
| **PFTrDA** | U | | 0.749 (L) | |
| **PFTeDA** | U | | 0.749 (L) | |
| **PFBS** | | 3.99 | 0.749 (L) | 4:52 |
| **PFPeS** | | 1.85 | 0.749 (L) | 5:26 |
| **PFHxS** | | 6.38 | 0.749 (L) | |
| **PFHpS** | J | 1.15 | 0.749 (L) | 7:10 |
| **PFOS** | | 112 | 0.749 (L) | |
| **PFNS** | U | | 0.749 (L) | |
| **PFDS** | U | | 0.749 (L) | |
| **PFDoS** | U | | 0.749 (L) | |
| **4:2 FTS** | U | | 3.00 (L) | |
| **6:2 FTS** | U | | 2.70 (L) | |
| **8:2 FTS** | U | | 3.00 (L) | |
| **PFOSA** | U | | 0.749 (L) | |
| **N-MeFOSA** | U | | 0.862 (L) | |
| **N-EtFOSA** | U | | 1.87 (L) | |
| **MeFOSAA** | U | | 0.749 (L) | |
| **EtFOSAA** | U | | 0.749 (L) | |
| **N-MeFOSE** | U | | 7.49 (L) | |
| **N-EtFOSE** | U | | 5.62 (L) | |
| **HFPO-DA** | U | | 2.85 (L) | |
| **ADONA** | U | | 3.00 (L) | |
| **9Cl-PF3ONS** | U | | 3.00 (L) | |
| **11Cl-PF3OUdS** | U | | 3.00 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-18_Form1A_FC0L_082S77_SJ2730610.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 12:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-18 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.534 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:01:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 77** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 27.3 | 68.2 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 13.6 | 68.0 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 6.55 | 65.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 5.99 | 59.9 | 5:24 |
| **13C8-PFOA** | | 10.0 | 5.88 | 58.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 2.65 | 53.0 | 7:03 |
| **13C6-PFDA** | | 5.00 | 3.22 | 64.4 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 3.49 | 69.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.48 | 69.7 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.49 | 69.8 | 8:55 |
| **13C3-PFBS** | | 10.0 | 5.40 | 54.0 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 5.26 | 52.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 5.71 | 57.1 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 14.4 | 72.2 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 11.9 | 59.6 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 12.4 | 62.1 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 5.35 | 53.5 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 5.78 | 57.8 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.06 | 60.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 12.2 | 60.9 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 12.0 | 59.8 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 62.2 | 62.2 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 67.5 | 67.5 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 26.2 | 65.4 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-18_Form2_FC0L_082S77_SJ2730610.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 18:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-19 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.490 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:14:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 78** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 120 | 3.26 (L) | 1:59 |
| **PFPeA** | | 8.57 | 1.63 (L) | 4:19 |
| **PFHxA** | | 10.0 | 0.816 (L) | 4:54 |
| **PFHpA** | | 7.39 | 0.816 (L) | 5:24 |
| **PFOA** | | 59.6 | 0.816 (L) | |
| **PFNA** | J | 1.16 | 0.816 (L) | |
| **PFDA** | J | 0.914 | 0.816 (L) | 7:34 |
| **PFUnA** | U | | 0.816 (L) | |
| **PFDoA** | U | | 0.816 (L) | |
| **PFTrDA** | U | | 0.816 (L) | |
| **PFTeDA** | U | | 0.816 (L) | |
| **PFBS** | | 4.49 | 0.816 (L) | 4:52 |
| **PFPeS** | | 2.61 | 0.816 (L) | 5:26 |
| **PFHxS** | | 9.11 | 0.816 (L) | |
| **PFHpS** | | 2.04 | 0.816 (L) | 7:10 |
| **PFOS** | | 208 | 0.816 (L) | |
| **PFNS** | U | | 0.816 (L) | |
| **PFDS** | U | | 0.816 (L) | |
| **PFDoS** | U | | 0.816 (L) | |
| **4:2 FTS** | U | | 3.26 (L) | |
| **6:2 FTS** | U | | 2.94 (L) | |
| **8:2 FTS** | U | | 3.26 (L) | |
| **PFOSA** | J | 1.35 | 0.816 (L) | |
| **N-MeFOSA** | U | | 0.938 (L) | |
| **N-EtFOSA** | U | | 2.04 (L) | |
| **MeFOSAA** | U | | 0.816 (L) | |
| **EtFOSAA** | U | | 0.816 (L) | |
| **N-MeFOSE** | U | | 8.16 (L) | |
| **N-EtFOSE** | U | | 6.12 (L) | |
| **HFPO-DA** | U | | 3.10 (L) | |
| **ADONA** | U | | 3.26 (L) | |
| **9Cl-PF3ONS** | U | | 3.26 (L) | |
| **11Cl-PF3OUdS** | U | | 3.26 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-19_Form1A_FC0L_082S78_SJ2730611.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 18:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-19 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.490 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:14:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 78** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.8 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.6 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.25 | 92.5 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.47 | 84.7 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.33 | 83.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.90 | 78.0 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.47 | 89.4 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.68 | 93.7 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.21 | 84.2 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.81 | 76.1 | 8:56 |
| **13C3-PFBS** | | 10.0 | 8.70 | 87.0 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.12 | 81.2 | 6:18 |
| **13C8-PFOS** | | 10.0 | 8.73 | 87.3 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.5 | 92.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.8 | 83.8 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 15.7 | 78.6 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.79 | 77.9 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.39 | 73.9 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.43 | 74.3 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 19.6 | 98.0 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 17.1 | 85.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 79.6 | 79.6 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 81.1 | 81.1 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 35.0 | 87.6 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-19_Form2_FC0L_082S78_SJ2730611.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 10:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-20 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:27:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 79** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 86.7 | 2.94 (L) | 1:58 |
| **PFPeA** | | 6.19 | 1.47 (L) | 4:19 |
| **PFHxA** | J | 4.65 | 0.735 (L) | 4:54 |
| **PFHpA** | J | 2.10 | 0.735 (L) | 5:24 |
| **PFOA** | | 7.38 | 0.735 (L) | |
| **PFNA** | U | | 0.735 (L) | |
| **PFDA** | U | | 0.735 (L) | |
| **PFUnA** | U | | 0.735 (L) | |
| **PFDoA** | U | | 0.735 (L) | |
| **PFTrDA** | U | | 0.735 (L) | |
| **PFTeDA** | U | | 0.735 (L) | |
| **PFBS** | | 2.52 | 0.735 (L) | 4:52 |
| **PFPeS** | U | | 0.735 (L) | |
| **PFHxS** | | 3.27 | 0.735 (L) | |
| **PFHpS** | U | | 0.735 (L) | |
| **PFOS** | | 2.44 | 0.735 (L) | |
| **PFNS** | U | | 0.735 (L) | |
| **PFDS** | U | | 0.735 (L) | |
| **PFDoS** | U | | 0.735 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | U | | 0.735 (L) | |
| **N-MeFOSA** | U | | 0.846 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.735 (L) | |
| **EtFOSAA** | U | | 0.735 (L) | |
| **N-MeFOSE** | U | | 7.35 (L) | |
| **N-EtFOSE** | U | | 5.51 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-20_Form1A_FC0L_082S79_SJ2730612.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 10:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-20 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:27:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 79** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 24.2 | 60.5 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 17.8 | 88.8 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.54 | 85.4 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.16 | 81.6 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.18 | 81.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.04 | 80.7 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.5 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.88 | 97.6 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.75 | 74.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.81 | 76.2 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.71 | 87.1 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.28 | 82.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.49 | 84.9 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.1 | 90.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.6 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.3 | 86.7 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.93 | 79.3 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.00 | 70.0 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.19 | 71.9 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.4 | 82.0 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 16.5 | 82.5 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 79.7 | 79.7 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 79.6 | 79.6 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 34.7 | 86.8 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-20_Form2_FC0L_082S79_SJ2730612.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 17:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-21 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.488 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:40:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 80** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 88.4 | 3.28 (L) | 1:59 |
| **PFPeA** | | 6.23 | 1.64 (L) | 4:19 |
| **PFHxA** | J | 4.58 | 0.820 (L) | 4:54 |
| **PFHpA** | J | 2.39 | 0.820 (L) | 5:24 |
| **PFOA** | | 7.48 | 0.820 (L) | |
| **PFNA** | J | 0.826 | 0.820 (L) | |
| **PFDA** | U | | 0.820 (L) | |
| **PFUnA** | U | | 0.820 (L) | |
| **PFDoA** | U | | 0.820 (L) | |
| **PFTrDA** | U | | 0.820 (L) | |
| **PFTeDA** | U | | 0.820 (L) | |
| **PFBS** | | 2.67 | 0.820 (L) | 4:52 |
| **PFPeS** | U | | 0.820 (L) | |
| **PFHxS** | | 3.29 | 0.820 (L) | |
| **PFHpS** | U | | 0.820 (L) | |
| **PFOS** | | 2.15 | 0.820 (L) | |
| **PFNS** | U | | 0.820 (L) | |
| **PFDS** | U | | 0.820 (L) | |
| **PFDoS** | U | | 0.820 (L) | |
| **4:2 FTS** | U | | 3.28 (L) | |
| **6:2 FTS** | U | | 2.95 (L) | |
| **8:2 FTS** | U | | 3.28 (L) | |
| **PFOSA** | U | | 0.820 (L) | |
| **N-MeFOSA** | U | | 0.943 (L) | |
| **N-EtFOSA** | U | | 2.05 (L) | |
| **MeFOSAA** | U | | 0.820 (L) | |
| **EtFOSAA** | U | | 0.820 (L) | |
| **N-MeFOSE** | U | | 8.20 (L) | |
| **N-EtFOSE** | U | | 6.15 (L) | |
| **HFPO-DA** | U | | 3.12 (L) | |
| **ADONA** | U | | 3.28 (L) | |
| **9Cl-PF3ONS** | U | | 3.28 (L) | |
| **11Cl-PF3OUdS** | U | | 3.28 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-21_Form1A_FC0L_082S80_SJ2730613.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-022420**
**Sample Collection:**
**24-Feb-2020 17:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-21 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.488 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:40:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 80** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 31.1 | 77.7 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.5 | 92.5 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.99 | 89.9 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.21 | 82.1 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.51 | 85.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.17 | 83.3 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.16 | 83.2 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.73 | 94.6 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.37 | 87.4 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.67 | 73.3 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.39 | 83.9 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.15 | 81.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.06 | 90.6 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.3 | 91.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 85.2 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.0 | 90.2 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.09 | 80.9 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.70 | 77.0 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.91 | 79.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.8 | 89.0 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 18.3 | 91.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 83.8 | 83.8 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 85.9 | 85.9 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 94.0 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-21_Form2_FC0L_082S80_SJ2730613.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 17:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L32744-22 |
| **Sample Receipt Date:** | 28-Feb-2020 | **Sample Size:** | 0.193 L |
| **Extraction Date:** | 17-Mar-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:53:14 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_082 S: 81** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 103 | 17.4 (L) | 2:00 |
| **PFPeA** | U | | 8.72 (L) | |
| **PFHxA** | J | 17.4 | 4.36 (L) | 4:54 |
| **PFHpA** | | 59.9 | 4.36 (L) | 5:23 |
| **PFOA** | | 6790 | 4.36 (L) | |
| **PFNA** | | 7310 | 4.36 (L) | |
| **PFDA** | | 2880 | 4.36 (L) | 7:34 |
| **PFUnA** | | 196 | 4.36 (L) | 7:54 |
| **PFDoA** | | 23.7 | 4.36 (L) | 8:10 |
| **PFTrDA** | J | 6.53 | 4.36 (L) | 8:30 |
| **PFTeDA** | U | | 4.36 (L) | |
| **PFBS** | J | 4.71 | 4.36 (L) | 4:52 |
| **PFPeS** | U | | 4.36 (L) | |
| **PFHxS** | | 1130 | 4.36 (L) | |
| **PFHpS** | | 642 | 4.36 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 4.36 (L) | |
| **PFDS** | U | | 4.36 (L) | |
| **PFDoS** | U | | 4.36 (L) | |
| **4:2 FTS** | U | | 17.4 (L) | |
| **6:2 FTS** | U | | 15.7 (L) | |
| **8:2 FTS** | U | | 17.4 (L) | |
| **PFOSA** | | 214 | 4.36 (L) | |
| **N-MeFOSA** | U | | 5.01 (L) | |
| **N-EtFOSA** | U | | 10.9 (L) | |
| **MeFOSAA** | | 31.5 | 4.36 (L) | |
| **EtFOSAA** | | 136 | 4.36 (L) | |
| **N-MeFOSE** | U | | 43.6 (L) | |
| **N-EtFOSE** | U | | 32.7 (L) | |
| **HFPO-DA** | U | | 16.6 (L) | |
| **ADONA** | U | | 17.4 (L) | |
| **9Cl-PF3ONS** | U | | 17.4 (L) | |
| **11Cl-PF3OUdS** | U | | 17.4 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-22_Form1A_FC0L_082S81_SJ2730614.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC21-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 17:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-22 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.193 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 10:53:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 81** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.9 | 82.3 | 2:00 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 93.2 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.36 | 83.6 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.68 | 76.8 | 5:23 |
| **13C8-PFOA** | | 10.0 | 7.92 | 79.2 | 6:10 |
| **13C9-PFNA** | | 5.00 | 3.63 | 72.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 3.32 | 66.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 3.06 | 61.2 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 2.55 | 51.0 | 8:10 |
| **13C2-PFTeDA** | V | 5.00 | 1.53 | 30.7 | 8:55 |
| **13C3-PFBS** | | 10.0 | 5.88 | 58.8 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.06 | 80.6 | 6:16 |
| **13C8-PFOS** | | 10.0 | 8.49 | 84.9 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 21.5 | 108 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 27.1 | 135 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 17.4 | 86.8 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.20 | 92.0 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.51 | 65.1 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 5.75 | 57.5 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 12.5 | 62.6 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 16.9 | 84.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 74.9 | 74.9 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 73.1 | 73.1 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 32.1 | 80.3 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-22_Form2_FC0L_082S81_SJ2730614.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 17:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L32744-22 N |
| **Sample Receipt Date:** | 28-Feb-2020 | **Sample Size:** | 0.193 L |
| **Extraction Date:** | 17-Mar-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 04-Apr-2020 **Time:** 15:46:09 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_103 S: 27** |
| **Dilution Factor:** | 15 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_103 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 56400 | 65.4 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-22_Form1A_FC0L_103S27_SJ2732970.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-FOAM-01-022420**
**Sample Collection:**
**24-Feb-2020 17:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-22 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.193 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 04-Apr-2020 **Time:** 15:46:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_103 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | 15 | **Cal. Ver. Data Filename:** | FC0L_103 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 7.07 | 70.7 | 7:41 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-22_Form2_FC0L_103S27_SJ2732970.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-SML-01-022520**
**Sample Collection:**
**25-Feb-2020 15:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-23 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.291 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:06:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 82** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 471 | 5.49 (L) | 1:59 |
| **PFPeA** | | 13.5 | 2.75 (L) | 4:19 |
| **PFHxA** | | 13.6 | 1.37 (L) | 4:54 |
| **PFHpA** | | 6.35 | 1.37 (L) | 5:24 |
| **PFOA** | | 53.0 | 1.37 (L) | |
| **PFNA** | U | | 1.37 (L) | |
| **PFDA** | U | | 1.37 (L) | |
| **PFUnA** | U | | 1.37 (L) | |
| **PFDoA** | U | | 1.37 (L) | |
| **PFTrDA** | U | | 1.37 (L) | |
| **PFTeDA** | U | | 1.37 (L) | |
| **PFBS** | | 3.93 | 1.37 (L) | 4:52 |
| **PFPeS** | J | 2.15 | 1.37 (L) | 5:26 |
| **PFHxS** | | 8.34 | 1.37 (L) | |
| **PFHpS** | U | | 1.37 (L) | |
| **PFOS** | | 80.1 | 1.37 (L) | |
| **PFNS** | U | | 1.37 (L) | |
| **PFDS** | U | | 1.37 (L) | |
| **PFDoS** | U | | 1.37 (L) | |
| **4:2 FTS** | U | | 5.49 (L) | |
| **6:2 FTS** | J | 5.37 | 4.94 (L) | 5:52 |
| **8:2 FTS** | U | | 5.49 (L) | |
| **PFOSA** | U | | 1.37 (L) | |
| **N-MeFOSA** | U | | 1.58 (L) | |
| **N-EtFOSA** | U | | 3.43 (L) | |
| **MeFOSAA** | U | | 1.37 (L) | |
| **EtFOSAA** | U | | 1.37 (L) | |
| **N-MeFOSE** | U | | 13.7 (L) | |
| **N-EtFOSE** | U | | 10.3 (L) | |
| **HFPO-DA** | U | | 5.22 (L) | |
| **ADONA** | U | | 5.49 (L) | |
| **9Cl-PF3ONS** | U | | 5.49 (L) | |
| **11Cl-PF3OUdS** | U | | 5.49 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-23_Form1A_FC0L_082S82_SJ2730615.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-SML-01-022520**
**Sample Collection:**
**25-Feb-2020 15:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-23 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.291 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:06:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 82** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.5 | 83.7 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.1 | 90.7 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.58 | 85.8 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.49 | 84.9 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.44 | 84.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.28 | 85.7 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.75 | 95.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.22 | 84.5 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.58 | 91.7 | 8:09 |
| **13C2-PFTeDA** | | 5.00 | 3.83 | 76.6 | 8:56 |
| **13C3-PFBS** | | 10.0 | 8.68 | 86.8 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.17 | 81.7 | 6:18 |
| **13C8-PFOS** | | 10.0 | 8.90 | 89.0 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 20.1 | 101 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.3 | 81.5 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.1 | 85.5 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.66 | 76.6 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.32 | 73.2 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.44 | 74.4 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 12.7 | 63.4 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 19.1 | 95.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 75.7 | 75.7 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 76.0 | 76.0 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 36.4 | 91.1 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-23_Form2_FC0L_082S82_SJ2730615.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-SML-02-022520**
**Sample Collection:**
**25-Feb-2020 15:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-24 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.306 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 12:24:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 88** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 470 | 52.4 (L) | 1:58 |
| **PFPeA** | U | | 26.2 (L) | |
| **PFHxA** | J | 14.9 | 13.1 (L) | 4:54 |
| **PFHpA** | U | | 13.1 (L) | |
| **PFOA** | | 47.2 | 13.1 (L) | |
| **PFNA** | U | | 13.1 (L) | |
| **PFDA** | U | | 13.1 (L) | |
| **PFUnA** | U | | 13.1 (L) | |
| **PFDoA** | U | | 13.1 (L) | |
| **PFTrDA** | U | | 13.1 (L) | |
| **PFTeDA** | U | | 13.1 (L) | |
| **PFBS** | U | | 13.1 (L) | |
| **PFPeS** | U | | 13.1 (L) | |
| **PFHxS** | U | | 13.1 (L) | |
| **PFHpS** | U | | 13.1 (L) | |
| **PFOS** | | 73.0 | 13.1 (L) | |
| **PFNS** | U | | 13.1 (L) | |
| **PFDS** | U | | 13.1 (L) | |
| **PFDoS** | U | | 13.1 (L) | |
| **4:2 FTS** | U | | 52.4 (L) | |
| **6:2 FTS** | U | | 47.2 (L) | |
| **8:2 FTS** | U | | 52.4 (L) | |
| **PFOSA** | U | | 13.1 (L) | |
| **N-MeFOSA** | U | | 15.1 (L) | |
| **N-EtFOSA** | U | | 32.8 (L) | |
| **MeFOSAA** | U | | 13.1 (L) | |
| **EtFOSAA** | U | | 13.1 (L) | |
| **N-MeFOSE** | U | | 131 (L) | |
| **N-EtFOSE** | U | | 98.3 (L) | |
| **HFPO-DA** | U | | 49.8 (L) | |
| **ADONA** | U | | 52.4 (L) | |
| **9Cl-PF3ONS** | U | | 52.4 (L) | |
| **11Cl-PF3OUdS** | U | | 52.4 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-24_Form1A_FC0L_082S88_SJ2730621.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-SML-02-022520**
**Sample Collection:**
**25-Feb-2020 15:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-24 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.306 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 12:24:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 88** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 400 | 122 | 30.4 | 1:57 |
| **13C5-PFPeA** | | 200 | 190 | 94.9 | 4:19 |
| **13C5-PFHxA** | | 100 | 92.6 | 92.6 | 4:54 |
| **13C4-PFHpA** | | 100 | 85.2 | 85.2 | 5:24 |
| **13C8-PFOA** | | 100 | 87.7 | 87.7 | 6:11 |
| **13C9-PFNA** | | 50.0 | 43.2 | 86.3 | 7:03 |
| **13C6-PFDA** | | 50.0 | 43.6 | 87.2 | 7:34 |
| **13C7-PFUnA** | | 50.0 | 48.8 | 97.6 | 7:54 |
| **13C2-PFDoA** | | 50.0 | 47.1 | 94.3 | 8:10 |
| **13C2-PFTeDA** | | 50.0 | 40.8 | 81.5 | 8:55 |
| **13C3-PFBS** | | 100 | 93.5 | 93.5 | 4:51 |
| **13C3-PFHxS** | | 100 | 89.1 | 89.1 | 6:17 |
| **13C8-PFOS** | | 100 | 111 | 111 | 7:40 |
| **13C2-4:2 FTS** | | 200 | 205 | 102 | 4:46 |
| **13C2-6:2 FTS** | | 200 | 194 | 96.8 | 5:52 |
| **13C2-8:2 FTS** | | 200 | 151 | 75.6 | 7:24 |
| **13C8-PFOSA** | | 100 | 101 | 101 | 8:46 |
| **D3-N-MeFOSA** | | 100 | 96.7 | 96.7 | 10:12 |
| **D5-N-EtFOSA** | | 100 | 92.5 | 92.5 | 10:30 |
| **D3-MeFOSAA** | | 200 | 231 | 115 | 7:37 |
| **D5-EtFOSAA** | | 200 | 260 | 130 | 7:46 |
| **d7-NMe-FOSE** | | 1000 | 963 | 96.3 | 10:03 |
| **d9-NEt-FOSE** | | 1000 | 1000 | 100 | 10:22 |
| **13C3-HFPO-DA** | | 400 | 378 | 94.5 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-24_Form2_FC0L_082S88_SJ2730621.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 15:25**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-25 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:19:16 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 83** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 422 | 2.95 (L) | 1:58 |
| **PFPeA** | | 12.2 | 1.48 (L) | 4:19 |
| **PFHxA** | | 12.6 | 0.738 (L) | 4:54 |
| **PFHpA** | | 5.83 | 0.738 (L) | 5:24 |
| **PFOA** | | 54.2 | 0.738 (L) | |
| **PFNA** | J | 0.823 | 0.738 (L) | |
| **PFDA** | U | | 0.738 (L) | |
| **PFUnA** | U | | 0.738 (L) | |
| **PFDoA** | U | | 0.738 (L) | |
| **PFTrDA** | U | | 0.738 (L) | |
| **PFTeDA** | U | | 0.738 (L) | |
| **PFBS** | | 3.76 | 0.738 (L) | 4:52 |
| **PFPeS** | | 2.35 | 0.738 (L) | 5:26 |
| **PFHxS** | | 7.99 | 0.738 (L) | |
| **PFHpS** | J | 0.899 | 0.738 (L) | 7:10 |
| **PFOS** | | 84.2 | 0.738 (L) | |
| **PFNS** | U | | 0.738 (L) | |
| **PFDS** | U | | 0.738 (L) | |
| **PFDoS** | U | | 0.738 (L) | |
| **4:2 FTS** | U | | 2.95 (L) | |
| **6:2 FTS** | U | | 2.66 (L) | |
| **8:2 FTS** | U | | 2.95 (L) | |
| **PFOSA** | U | | 0.738 (L) | |
| **N-MeFOSA** | U | | 0.849 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.738 (L) | |
| **EtFOSAA** | U | | 0.738 (L) | |
| **N-MeFOSE** | U | | 7.38 (L) | |
| **N-EtFOSE** | U | | 5.54 (L) | |
| **HFPO-DA** | U | | 2.80 (L) | |
| **ADONA** | U | | 2.95 (L) | |
| **9Cl-PF3ONS** | U | | 2.95 (L) | |
| **11Cl-PF3OUdS** | U | | 2.95 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-25_Form1A_FC0L_082S83_SJ2730616.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 15:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-25 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:19:16 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 83** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 28.6 | 71.5 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.3 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.87 | 88.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.59 | 85.9 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.49 | 84.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.9 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.51 | 90.3 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.71 | 94.2 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.33 | 86.7 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.54 | 70.9 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.68 | 86.8 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.63 | 86.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.57 | 85.7 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 19.4 | 96.8 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.2 | 85.9 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.8 | 94.1 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.72 | 77.2 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.12 | 71.2 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 7.81 | 78.1 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.0 | 84.9 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 17.6 | 87.9 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 79.7 | 79.7 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 81.7 | 81.7 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.1 | 92.8 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-25_Form2_FC0L_082S83_SJ2730616.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-02-022520**
**Sample Collection:**
**25-Feb-2020 15:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-26 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:32:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 84** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 461 | 2.93 (L) | 1:59 |
| **PFPeA** | | 12.8 | 1.46 (L) | 4:19 |
| **PFHxA** | | 12.2 | 0.732 (L) | 4:54 |
| **PFHpA** | | 6.15 | 0.732 (L) | 5:24 |
| **PFOA** | | 52.4 | 0.732 (L) | |
| **PFNA** | J | 0.819 | 0.732 (L) | |
| **PFDA** | U | | 0.732 (L) | |
| **PFUnA** | U | | 0.732 (L) | |
| **PFDoA** | U | | 0.732 (L) | |
| **PFTrDA** | U | | 0.732 (L) | |
| **PFTeDA** | U | | 0.732 (L) | |
| **PFBS** | | 3.74 | 0.732 (L) | 4:51 |
| **PFPeS** | | 2.32 | 0.732 (L) | 5:26 |
| **PFHxS** | | 8.84 | 0.732 (L) | |
| **PFHpS** | J | 0.884 | 0.732 (L) | 7:10 |
| **PFOS** | | 80.7 | 0.732 (L) | |
| **PFNS** | U | | 0.732 (L) | |
| **PFDS** | U | | 0.732 (L) | |
| **PFDoS** | U | | 0.732 (L) | |
| **4:2 FTS** | U | | 2.93 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.93 (L) | |
| **PFOSA** | U | | 0.732 (L) | |
| **N-MeFOSA** | U | | 0.841 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.732 (L) | |
| **EtFOSAA** | U | | 0.732 (L) | |
| **N-MeFOSE** | U | | 7.32 (L) | |
| **N-EtFOSE** | U | | 5.49 (L) | |
| **HFPO-DA** | U | | 2.78 (L) | |
| **ADONA** | U | | 2.93 (L) | |
| **9Cl-PF3ONS** | U | | 2.93 (L) | |
| **11Cl-PF3OUdS** | U | | 2.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-26_Form1A_FC0L_082S84_SJ2730617.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-02-022520**
**Sample Collection:**
**25-Feb-2020 15:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-26 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:32:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 84** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.4 | 81.1 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 95.0 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.38 | 93.8 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.51 | 85.1 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.36 | 83.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.92 | 78.3 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.45 | 89.0 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.62 | 92.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.32 | 86.3 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.75 | 75.1 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.76 | 87.6 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.30 | 83.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.41 | 94.1 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.9 | 94.4 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.4 | 87.1 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 89.2 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.10 | 81.0 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.82 | 78.2 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 7.97 | 79.7 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.0 | 84.9 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 18.2 | 91.2 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 82.4 | 82.4 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 84.4 | 84.4 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.4 | 93.6 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-26_Form2_FC0L_082S84_SJ2730617.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520**
**Sample Collection:**
**25-Feb-2020 15:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-27 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:29:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 93** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 457 | 2.93 (L) | 1:59 |
| **PFPeA** | | 12.9 | 1.47 (L) | 4:19 |
| **PFHxA** | | 12.6 | 0.734 (L) | 4:54 |
| **PFHpA** | | 6.04 | 0.734 (L) | 5:24 |
| **PFOA** | | 54.7 | 0.734 (L) | |
| **PFNA** | U | | 0.734 (L) | |
| **PFDA** | U | | 0.734 (L) | |
| **PFUnA** | U | | 0.734 (L) | |
| **PFDoA** | U | | 0.734 (L) | |
| **PFTrDA** | U | | 0.734 (L) | |
| **PFTeDA** | U | | 0.734 (L) | |
| **PFBS** | | 4.03 | 0.734 (L) | 4:52 |
| **PFPeS** | | 2.50 | 0.734 (L) | 5:26 |
| **PFHxS** | | 8.42 | 0.734 (L) | |
| **PFHpS** | J | 1.03 | 0.734 (L) | 7:10 |
| **PFOS** | | 85.3 | 0.734 (L) | |
| **PFNS** | U | | 0.734 (L) | |
| **PFDS** | U | | 0.734 (L) | |
| **PFDoS** | U | | 0.734 (L) | |
| **4:2 FTS** | U | | 2.93 (L) | |
| **6:2 FTS** | U | | 2.64 (L) | |
| **8:2 FTS** | U | | 2.93 (L) | |
| **PFOSA** | U | | 0.734 (L) | |
| **N-MeFOSA** | U | | 0.844 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.734 (L) | |
| **EtFOSAA** | U | | 0.734 (L) | |
| **N-MeFOSE** | U | | 7.34 (L) | |
| **N-EtFOSE** | U | | 5.50 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.93 (L) | |
| **9Cl-PF3ONS** | U | | 2.93 (L) | |
| **11Cl-PF3OUdS** | U | | 2.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-27_Form1A_FC0L_082S93_SJ2730626.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520**
**Sample Collection:**
**25-Feb-2020 15:35**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-27 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:29:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 93** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.8 | 81.9 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.3 | 91.7 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.89 | 88.9 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.56 | 85.6 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.21 | 82.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.93 | 78.7 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.79 | 95.8 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.62 | 92.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.18 | 83.5 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.81 | 76.3 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.67 | 86.7 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.11 | 81.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.50 | 85.0 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 17.6 | 87.9 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.9 | 89.5 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.6 | 87.8 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.03 | 80.3 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.59 | 65.9 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.13 | 71.3 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.8 | 84.0 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 17.2 | 86.0 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 73.4 | 73.4 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 76.4 | 76.4 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.6 | 96.6 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-27_Form2_FC0L_082S93_SJ2730626.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 17:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-28 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.520 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:45:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 85** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 461 | 3.08 (L) | 1:58 |
| **PFPeA** | | 12.9 | 1.54 (L) | 4:19 |
| **PFHxA** | | 12.9 | 0.769 (L) | 4:54 |
| **PFHpA** | | 5.75 | 0.769 (L) | 5:24 |
| **PFOA** | | 53.8 | 0.769 (L) | |
| **PFNA** | J | 0.837 | 0.769 (L) | |
| **PFDA** | U | | 0.769 (L) | |
| **PFUnA** | U | | 0.769 (L) | |
| **PFDoA** | U | | 0.769 (L) | |
| **PFTrDA** | U | | 0.769 (L) | |
| **PFTeDA** | U | | 0.769 (L) | |
| **PFBS** | | 3.89 | 0.769 (L) | 4:52 |
| **PFPeS** | | 2.14 | 0.769 (L) | 5:26 |
| **PFHxS** | | 8.24 | 0.769 (L) | |
| **PFHpS** | J | 0.961 | 0.769 (L) | 7:10 |
| **PFOS** | | 81.0 | 0.769 (L) | |
| **PFNS** | U | | 0.769 (L) | |
| **PFDS** | U | | 0.769 (L) | |
| **PFDoS** | U | | 0.769 (L) | |
| **4:2 FTS** | U | | 3.08 (L) | |
| **6:2 FTS** | U | | 2.77 (L) | |
| **8:2 FTS** | U | | 3.08 (L) | |
| **PFOSA** | U | | 0.769 (L) | |
| **N-MeFOSA** | U | | 0.885 (L) | |
| **N-EtFOSA** | U | | 1.92 (L) | |
| **MeFOSAA** | U | | 0.769 (L) | |
| **EtFOSAA** | U | | 0.769 (L) | |
| **N-MeFOSE** | U | | 7.69 (L) | |
| **N-EtFOSE** | U | | 5.77 (L) | |
| **HFPO-DA** | U | | 2.92 (L) | |
| **ADONA** | U | | 3.08 (L) | |
| **9Cl-PF3ONS** | U | | 3.08 (L) | |
| **11Cl-PF3OUdS** | U | | 3.08 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-28_Form1A_FC0L_082S85_SJ2730618.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 17:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-28 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.520 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:45:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 85** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.4 | 81.1 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 17.8 | 89.1 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.68 | 86.8 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 7.67 | 76.7 | 5:24 |
| **13C8-PFOA** | | 10.0 | 7.71 | 77.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.87 | 77.4 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.37 | 87.4 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.58 | 91.7 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.22 | 84.4 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.46 | 69.3 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.07 | 80.7 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.06 | 80.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.51 | 85.1 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 17.3 | 86.7 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.5 | 82.7 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.1 | 90.6 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.81 | 78.1 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.45 | 74.5 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.57 | 75.7 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.1 | 80.6 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 16.5 | 82.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 77.4 | 77.4 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 79.3 | 79.3 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 34.9 | 87.3 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-28_Form2_FC0L_082S85_SJ2730618.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 16:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-29 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.520 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:58:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 86** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 455 | 3.08 (L) | 1:58 |
| **PFPeA** | | 12.9 | 1.54 (L) | 4:19 |
| **PFHxA** | | 12.7 | 0.770 (L) | 4:54 |
| **PFHpA** | | 6.14 | 0.770 (L) | 5:24 |
| **PFOA** | | 51.3 | 0.770 (L) | |
| **PFNA** | U | | 0.770 (L) | |
| **PFDA** | U | | 0.770 (L) | |
| **PFUnA** | U | | 0.770 (L) | |
| **PFDoA** | U | | 0.770 (L) | |
| **PFTrDA** | U | | 0.770 (L) | |
| **PFTeDA** | U | | 0.770 (L) | |
| **PFBS** | | 3.70 | 0.770 (L) | 4:52 |
| **PFPeS** | | 2.16 | 0.770 (L) | 5:26 |
| **PFHxS** | | 7.70 | 0.770 (L) | |
| **PFHpS** | J | 1.02 | 0.770 (L) | 7:10 |
| **PFOS** | | 80.8 | 0.770 (L) | |
| **PFNS** | U | | 0.770 (L) | |
| **PFDS** | U | | 0.770 (L) | |
| **PFDoS** | U | | 0.770 (L) | |
| **4:2 FTS** | U | | 3.08 (L) | |
| **6:2 FTS** | U | | 2.77 (L) | |
| **8:2 FTS** | U | | 3.08 (L) | |
| **PFOSA** | U | | 0.770 (L) | |
| **N-MeFOSA** | U | | 0.885 (L) | |
| **N-EtFOSA** | U | | 1.92 (L) | |
| **MeFOSAA** | U | | 0.770 (L) | |
| **EtFOSAA** | U | | 0.770 (L) | |
| **N-MeFOSE** | U | | 7.70 (L) | |
| **N-EtFOSE** | U | | 5.77 (L) | |
| **HFPO-DA** | U | | 2.92 (L) | |
| **ADONA** | U | | 3.08 (L) | |
| **9Cl-PF3ONS** | U | | 3.08 (L) | |
| **11Cl-PF3OUdS** | U | | 3.08 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-29_Form1A_FC0L_082S86_SJ2730619.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-022520**
**Sample Collection:**
**25-Feb-2020 16:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-29 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.520 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 11:58:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 86** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.9 | 84.8 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.0 | 90.2 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.82 | 88.2 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.73 | 87.3 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.72 | 87.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.00 | 80.1 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.53 | 90.7 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.71 | 94.1 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.24 | 84.8 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.62 | 72.4 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.52 | 85.2 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.26 | 82.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.52 | 85.2 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 90.8 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 84.8 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.7 | 93.4 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.36 | 73.6 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.28 | 72.8 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 7.46 | 74.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.0 | 79.8 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 16.1 | 80.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 76.6 | 76.6 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 79.5 | 79.5 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 35.0 | 87.5 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-29_Form2_FC0L_082S86_SJ2730619.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-FOAM-01-022520**
**Sample Collection:**
**25-Feb-2020 16:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-30 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.00509 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:03:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 91** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3170 (L) | |
| **PFPeA** | U | | 1580 (L) | |
| **PFHxA** | U | | 792 (L) | |
| **PFHpA** | U | | 792 (L) | |
| **PFOA** | J | 1540 | 792 (L) | |
| **PFNA** | | 2730 | 792 (L) | |
| **PFDA** | | 15300 | 792 (L) | 7:34 |
| **PFUnA** | J | 846 | 792 (L) | 7:54 |
| **PFDoA** | U | | 792 (L) | |
| **PFTrDA** | U | | 792 (L) | |
| **PFTeDA** | U | | 792 (L) | |
| **PFBS** | U | | 792 (L) | |
| **PFPeS** | U | | 792 (L) | |
| **PFHxS** | U | | 792 (L) | |
| **PFHpS** | | 1650 | 792 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 792 (L) | |
| **PFDS** | U | | 792 (L) | |
| **PFDoS** | U | | 792 (L) | |
| **4:2 FTS** | U | | 3170 (L) | |
| **6:2 FTS** | U | | 2850 (L) | |
| **8:2 FTS** | U | | 3170 (L) | |
| **PFOSA** | | 8570 | 792 (L) | |
| **N-MeFOSA** | U | | 911 (L) | |
| **N-EtFOSA** | U | | 1980 (L) | |
| **MeFOSAA** | U | | 792 (L) | |
| **EtFOSAA** | | 8400 | 792 (L) | |
| **N-MeFOSE** | U | | 7920 (L) | |
| **N-EtFOSE** | U | | 5940 (L) | |
| **HFPO-DA** | U | | 3010 (L) | |
| **ADONA** | U | | 3170 (L) | |
| **9Cl-PF3ONS** | U | | 3170 (L) | |
| **11Cl-PF3OUdS** | U | | 3170 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-30_Form1A_FC0L_082S91_SJ2730624.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL6-FOAM-01-022520**
**Sample Collection:**
**25-Feb-2020 16:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-30 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.00509 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:03:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 91** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 400 | 353 | 88.3 | 1:57 |
| **13C5-PFPeA** | | 200 | 184 | 92.2 | 4:19 |
| **13C5-PFHxA** | | 100 | 93.4 | 93.4 | 4:54 |
| **13C4-PFHpA** | | 100 | 85.9 | 85.9 | 5:24 |
| **13C8-PFOA** | | 100 | 86.7 | 86.7 | 6:11 |
| **13C9-PFNA** | | 50.0 | 42.0 | 84.0 | 7:03 |
| **13C6-PFDA** | | 50.0 | 47.2 | 94.3 | 7:34 |
| **13C7-PFUnA** | | 50.0 | 48.3 | 96.5 | 7:53 |
| **13C2-PFDoA** | | 50.0 | 39.7 | 79.3 | 8:10 |
| **13C2-PFTeDA** | | 50.0 | 43.3 | 86.6 | 8:55 |
| **13C3-PFBS** | | 100 | 92.4 | 92.4 | 4:51 |
| **13C3-PFHxS** | | 100 | 90.6 | 90.6 | 6:17 |
| **13C8-PFOS** | | 100 | 94.8 | 94.8 | 7:39 |
| **13C2-4:2 FTS** | | 200 | 209 | 105 | 4:46 |
| **13C2-6:2 FTS** | | 200 | 213 | 106 | 5:52 |
| **13C2-8:2 FTS** | | 200 | 209 | 105 | 7:23 |
| **13C8-PFOSA** | | 100 | 122 | 122 | 8:46 |
| **D3-N-MeFOSA** | | 100 | 113 | 113 | 10:12 |
| **D5-N-EtFOSA** | | 100 | 110 | 110 | 10:30 |
| **D3-MeFOSAA** | | 200 | 254 | 127 | 7:37 |
| **D5-EtFOSAA** | | 200 | 270 | 135 | 7:45 |
| **d7-NMe-FOSE** | | 1000 | 1210 | 121 | 10:03 |
| **d9-NEt-FOSE** | | 1000 | 1280 | 128 | 10:22 |
| **13C3-HFPO-DA** | | 400 | 367 | 91.7 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-30_Form2_FC0L_082S91_SJ2730624.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-FOAM-01-022520**
**Sample Collection:**
**25-Feb-2020 16:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L32744-30 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.00509 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 12:50:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 90** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 1630000 | 7920 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-30_Form1A_FC0L_082S90_SJ2730623.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL6-FOAM-01-022520**
**Sample Collection:**
**25-Feb-2020 16:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L32744-30 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.00509 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 12:50:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 90** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 100 | 82.1 | 82.1 | 7:40 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_L32744-30_Form2_FC0L_082S90_SJ2730623.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG71744-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:30:50 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71744-101_Form1A_FC0L_082S47_SJ2731006.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:30:50 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.4 | 83.6 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.3 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.87 | 88.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.02 | 80.2 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.07 | 80.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.94 | 78.8 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.04 | 80.8 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.70 | 93.9 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.19 | 83.8 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.46 | 69.3 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.24 | 82.4 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.05 | 80.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 7.93 | 79.3 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.9 | 94.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.8 | 88.8 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 88.8 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.09 | 80.9 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 5.62 | 56.2 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 5.39 | 53.9 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 18.0 | 90.1 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 18.6 | 93.0 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 105 | 105 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 104 | 104 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.8 | 96.9 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71744-101_Form2_FC0L_082S47_SJ2731006.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG71745-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 09:22:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 74** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71745-101_Form1A_FC0L_082S74_SJ2730607.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 09:22:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 74** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.8 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.7 | 93.7 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.82 | 88.2 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.57 | 85.7 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.94 | 89.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.22 | 84.5 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.37 | 87.4 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.59 | 91.8 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.62 | 92.3 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.98 | 79.6 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.66 | 86.6 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.76 | 87.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.38 | 83.8 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 20.0 | 100 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 21.1 | 105 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.1 | 95.7 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.01 | 70.1 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 5.21 | 52.1 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 5.42 | 54.2 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 15.0 | 75.1 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 15.6 | 78.2 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 69.7 | 69.7 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 72.1 | 72.1 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 36.1 | 90.2 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71745-101_Form2_FC0L_082S74_SJ2730607.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:04:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_082 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 38.4 | 96.1 | 1:58 |
| **PFPeA** | | 20.0 | 20.0 | 100 | 4:19 |
| **PFHxA** | | 10.0 | 9.19 | 91.9 | 4:54 |
| **PFHpA** | | 10.0 | 9.71 | 97.1 | 5:24 |
| **PFOA** | | 10.0 | 9.05 | 90.5 | |
| **PFNA** | | 10.0 | 9.83 | 98.3 | |
| **PFDA** | | 10.0 | 9.13 | 91.3 | 7:34 |
| **PFUnA** | | 10.0 | 9.18 | 91.8 | 7:54 |
| **PFDoA** | | 10.0 | 9.64 | 96.4 | 8:10 |
| **PFTrDA** | | 10.0 | 10.4 | 104 | 8:30 |
| **PFTeDA** | | 10.0 | 10.7 | 107 | 8:55 |
| **PFBS** | | 10.0 | 9.99 | 99.9 | 4:52 |
| **PFPeS** | | 10.0 | 9.64 | 96.4 | 5:26 |
| **PFHxS** | | 10.0 | 9.48 | 94.8 | |
| **PFHpS** | | 10.0 | 9.27 | 92.7 | 7:10 |
| **PFOS** | | 10.0 | 9.06 | 90.6 | |
| **PFNS** | | 10.0 | 8.46 | 84.6 | 7:59 |
| **PFDS** | | 10.0 | 9.12 | 91.2 | 8:17 |
| **PFDoS** | | 10.0 | 8.20 | 82.0 | 9:06 |
| **4:2 FTS** | | 40.0 | 42.8 | 107 | 4:46 |
| **6:2 FTS** | | 36.1 | 34.5 | 95.6 | 5:52 |
| **8:2 FTS** | | 40.0 | 39.9 | 99.7 | 7:24 |
| **PFOSA** | | 10.0 | 9.86 | 98.6 | |
| **N-MeFOSA** | | 11.5 | 12.0 | 105 | |
| **N-EtFOSA** | | 25.0 | 23.0 | 91.9 | |
| **MeFOSAA** | | 10.0 | 9.88 | 98.8 | |
| **EtFOSAA** | | 10.0 | 9.61 | 96.1 | |
| **N-MeFOSE** | | 100 | 99.1 | 99.1 | |
| **N-EtFOSE** | | 75.0 | 75.0 | 100 | |
| **HFPO-DA** | | 38.0 | 37.3 | 98.1 | 5:03 |
| **ADONA** | | 40.0 | 38.1 | 95.1 | 5:38 |
| **9Cl-PF3ONS** | | 40.0 | 42.0 | 105 | 7:54 |
| **11Cl-PF3OUdS** | | 40.0 | 37.0 | 92.6 | 8:32 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 03:04:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_082 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.9 | 87.3 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 92.0 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.77 | 87.7 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.29 | 82.9 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.42 | 84.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.0 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.75 | 94.9 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.80 | 96.0 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.75 | 94.9 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.73 | 74.5 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.76 | 87.6 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.76 | 87.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.76 | 87.6 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 16.9 | 84.4 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.5 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.2 | 91.1 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.45 | 74.5 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 5.56 | 55.6 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 5.48 | 54.8 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 17.1 | 85.4 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 18.8 | 94.1 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 99.0 | 99.0 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 110 | 110 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.0 | 95.0 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3; Report Filename: PFC_FC_LC_PFAS_WG71744-102_Form8B_SJ2731002.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 08:56:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_082 S: 72** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 38.5 | 96.3 | 1:59 |
| **PFPeA** | | 20.0 | 19.6 | 98.1 | 4:19 |
| **PFHxA** | | 10.0 | 8.65 | 86.5 | 4:54 |
| **PFHpA** | | 10.0 | 9.40 | 94.0 | 5:24 |
| **PFOA** | | 10.0 | 9.37 | 93.7 | |
| **PFNA** | | 10.0 | 9.81 | 98.1 | |
| **PFDA** | | 10.0 | 11.1 | 111 | 7:34 |
| **PFUnA** | | 10.0 | 9.47 | 94.7 | 7:54 |
| **PFDoA** | | 10.0 | 8.77 | 87.7 | 8:10 |
| **PFTrDA** | | 10.0 | 9.79 | 97.9 | 8:30 |
| **PFTeDA** | | 10.0 | 9.90 | 99.0 | 8:55 |
| **PFBS** | | 10.0 | 10.2 | 102 | 4:52 |
| **PFPeS** | | 10.0 | 9.71 | 97.1 | 5:26 |
| **PFHxS** | | 10.0 | 9.40 | 94.0 | |
| **PFHpS** | | 10.0 | 9.71 | 97.1 | 7:10 |
| **PFOS** | | 10.0 | 9.11 | 91.1 | |
| **PFNS** | N | 10.0 | 7.38 | 73.8 | 7:59 |
| **PFDS** | | 10.0 | 8.76 | 87.6 | 8:17 |
| **PFDoS** | | 10.0 | 8.59 | 85.9 | 9:06 |
| **4:2 FTS** | | 40.0 | 42.3 | 106 | 4:47 |
| **6:2 FTS** | | 36.1 | 33.5 | 93.0 | 5:52 |
| **8:2 FTS** | | 40.0 | 40.9 | 102 | 7:24 |
| **PFOSA** | | 10.0 | 9.82 | 98.2 | |
| **N-MeFOSA** | | 11.5 | 11.0 | 95.6 | |
| **N-EtFOSA** | | 25.0 | 20.3 | 81.2 | |
| **MeFOSAA** | | 10.0 | 10.3 | 103 | |
| **EtFOSAA** | | 10.0 | 9.04 | 90.4 | |
| **N-MeFOSE** | | 100 | 97.9 | 97.9 | |
| **N-EtFOSE** | | 75.0 | 73.8 | 98.4 | |
| **HFPO-DA** | | 38.0 | 37.5 | 98.6 | 5:03 |
| **ADONA** | | 40.0 | 39.9 | 99.9 | 5:39 |
| **9Cl-PF3ONS** | | 40.0 | 41.6 | 104 | 7:54 |
| **11Cl-PF3OUdS** | | 40.0 | 39.5 | 98.6 | 8:32 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 08:56:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_082 S: 72** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.6 | 86.5 | 1:59 |
| **13C5-PFPeA** | | 20.0 | 17.9 | 89.5 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.33 | 93.3 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.86 | 88.6 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.53 | 85.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.0 | 7:03 |
| **13C6-PFDA** | | 5.00 | 3.96 | 79.3 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.97 | 99.4 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 5.24 | 105 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.37 | 87.4 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.06 | 90.6 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 9.09 | 90.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.17 | 91.7 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 90.9 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 20.4 | 102 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.6 | 92.9 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.69 | 76.9 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.46 | 64.6 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.74 | 67.4 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.8 | 84.1 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 17.6 | 87.9 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 78.8 | 78.8 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 85.3 | 85.3 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 35.8 | 89.6 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3; Report Filename: PFC_FC_LC_PFAS_WG71745-102_Form8B_SJ2730603.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420 (MS)**
**Sample Collection:**
**24-Feb-2020 15:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.366 L |
| **Extraction Date:** | 17-Mar-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:38:09 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_082 S: 66** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_082 S: 47 |
| | | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 109 | | 89.7 | 193 | 94.3 | 3.22 |
| **PFPeA** | | N/A | 54.6 | | 6.50 | 59.8 | 97.5 | 4.43 |
| **PFHxA** | | N/A | 27.3 | J | 4.86 | 29.3 | 89.6 | 5.23 |
| **PFHpA** | | N/A | 27.3 | J | 1.99 | 27.8 | 94.5 | 1.18 |
| **PFOA** | | N/A | 27.3 | | 7.80 | 31.7 | 87.5 | 5.13 |
| **PFNA** | | N/A | 27.3 | U | | 27.9 | 102 | 2.46 |
| **PFDA** | | N/A | 27.3 | U | | 24.6 | 90.1 | 13.4 |
| **PFUnA** | | N/A | 27.3 | U | | 24.8 | 90.8 | 8.00 |
| **PFDoA** | | N/A | 27.3 | U | | 33.9 | 124 | 38.7 |
| **PFTrDA** | | N/A | 27.3 | U | | 26.7 | 97.9 | 6.78 |
| **PFTeDA** | | N/A | 27.3 | U | | 27.3 | 100 | 4.37 |
| **PFBS** | | N/A | 27.3 | | 2.76 | 28.8 | 95.3 | 5.12 |
| **PFPeS** | | N/A | 27.3 | U | | 27.0 | 98.9 | 8.88 |
| **PFHxS** | | N/A | 27.3 | J | 3.40 | 29.0 | 93.7 | 5.26 |
| **PFHpS** | | N/A | 27.3 | U | | 27.2 | 99.4 | 6.29 |
| **PFOS** | | N/A | 27.3 | | 2.36 | 27.1 | 90.4 | 7.95 |
| **PFNS** | | N/A | 27.3 | U | | 28.1 | 103 | 6.23 |
| **PFDS** | | N/A | 27.3 | U | | 24.4 | 89.4 | 0.977 |
| **PFDoS** | | N/A | 27.3 | U | | 23.3 | 85.1 | 1.60 |
| **4:2 FTS** | | N/A | 109 | U | | 114 | 105 | 4.98 |
| **6:2 FTS** | | N/A | 98.5 | U | | 96.2 | 97.6 | 8.84 |
| **8:2 FTS** | | N/A | 109 | U | | 107 | 98.0 | 6.01 |
| **PFOSA** | | N/A | 27.3 | U | | 26.9 | 98.3 | 1.85 |
| **N-MeFOSA** | | N/A | 31.4 | U | | 30.9 | 98.3 | 5.28 |
| **N-EtFOSA** | | N/A | 68.3 | U | | 57.2 | 83.7 | 13.6 |
| **MeFOSAA** | | N/A | 27.3 | U | | 25.6 | 93.6 | 15.6 |
| **EtFOSAA** | | N/A | 27.3 | U | | 26.9 | 98.5 | 2.45 |
| **N-MeFOSE** | | N/A | 273 | U | | 270 | 98.8 | 3.84 |
| **N-EtFOSE** | | N/A | 205 | U | | 208 | 101 | 0.977 |
| **HFPO-DA** | | N/A | 104 | U | | 101 | 96.9 | 7.30 |
| **ADONA** | | N/A | 109 | U | | 106 | 96.8 | 3.64 |
| **9Cl-PF3ONS** | | N/A | 109 | U | | 106 | 96.5 | 7.36 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 109 | U | | 98.6 | 90.2 | 2.90 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 14-Apr-2020 12:27:38; Application: XMLTransformer-1.18.3;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71744-103_L32744-13_Form8C.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420 (MS)**
**Sample Collection: 24-Feb-2020 15:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.366 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:38:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 66** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 193 | 4.37 (L) | 1:58 |
| **PFPeA** | | 59.8 | 2.19 (L) | 4:19 |
| **PFHxA** | | 29.3 | 1.09 (L) | 4:54 |
| **PFHpA** | | 27.8 | 1.09 (L) | 5:24 |
| **PFOA** | | 31.7 | 1.09 (L) | |
| **PFNA** | | 27.9 | 1.09 (L) | |
| **PFDA** | | 24.6 | 1.09 (L) | 7:34 |
| **PFUnA** | | 24.8 | 1.09 (L) | 7:54 |
| **PFDoA** | | 33.9 | 1.09 (L) | 8:10 |
| **PFTrDA** | | 26.7 | 1.09 (L) | 8:30 |
| **PFTeDA** | | 27.3 | 1.09 (L) | 8:55 |
| **PFBS** | | 28.8 | 1.09 (L) | 4:51 |
| **PFPeS** | | 27.0 | 1.09 (L) | 5:26 |
| **PFHxS** | | 29.0 | 1.09 (L) | |
| **PFHpS** | | 27.2 | 1.09 (L) | 7:10 |
| **PFOS** | | 27.1 | 1.09 (L) | |
| **PFNS** | | 28.1 | 1.09 (L) | 7:59 |
| **PFDS** | | 24.4 | 1.09 (L) | 8:16 |
| **PFDoS** | | 23.3 | 1.09 (L) | 9:06 |
| **4:2 FTS** | | 114 | 4.37 (L) | 4:46 |
| **6:2 FTS** | | 96.2 | 3.93 (L) | 5:52 |
| **8:2 FTS** | | 107 | 4.37 (L) | 7:24 |
| **PFOSA** | | 26.9 | 1.09 (L) | |
| **N-MeFOSA** | | 30.9 | 1.26 (L) | |
| **N-EtFOSA** | | 57.2 | 2.73 (L) | |
| **MeFOSAA** | | 25.6 | 1.09 (L) | |
| **EtFOSAA** | | 26.9 | 1.09 (L) | |
| **N-MeFOSE** | | 270 | 10.9 (L) | |
| **N-EtFOSE** | | 208 | 8.20 (L) | |
| **HFPO-DA** | | 101 | 4.15 (L) | 5:03 |
| **ADONA** | | 106 | 4.37 (L) | 5:38 |
| **9Cl-PF3ONS** | | 106 | 4.37 (L) | 7:54 |
| **11Cl-PF3OUdS** | | 98.6 | 4.37 (L) | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71744-103_Form1A_FC0L_082S66_SJ2731025.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420 (MS)**
**Sample Collection: 24-Feb-2020 15:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.366 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:38:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 66** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.3 | 88.3 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 93.2 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.10 | 91.0 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.70 | 87.0 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.49 | 84.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.11 | 82.1 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.92 | 98.5 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.43 | 88.7 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.63 | 72.6 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 4.02 | 80.3 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.15 | 91.5 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.67 | 86.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.5 | 105 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 16.6 | 83.2 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.4 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.2 | 91.1 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 9.92 | 99.2 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 8.01 | 80.1 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 8.85 | 88.5 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 20.8 | 104 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 19.4 | 96.9 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 91.5 | 91.5 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 102 | 102 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 38.5 | 96.3 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71744-103_Form2_FC0L_082S66_SJ2731025.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS)**
**ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520 (MS)**
**Sample Collection:**
**25-Feb-2020 15:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Extraction Date:** | 17-Mar-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:42:25 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_082 S: 94** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_082 S: 74 |
| | | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 74.5 | | 457 | 497 | 53.8 | 10.8 |
| **PFPeA** | | N/A | 37.3 | | 12.9 | 48.7 | 96.1 | 5.09 |
| **PFHxA** | | N/A | 18.6 | | 12.6 | 28.4 | 84.9 | 1.60 |
| **PFHpA** | | N/A | 18.6 | | 6.04 | 22.7 | 89.2 | 3.43 |
| **PFOA** | | N/A | 18.6 | | 54.7 | 71.0 | 87.2 | 2.62 |
| **PFNA** | | N/A | 18.6 | U | | 18.2 | 97.5 | 2.84 |
| **PFDA** | | N/A | 18.6 | U | | 15.9 | 85.1 | 16.6 |
| **PFUnA** | | N/A | 18.6 | U | | 19.0 | 102 | 9.66 |
| **PFDoA** | | N/A | 18.6 | U | | 17.3 | 92.9 | 0.856 |
| **PFTrDA** | | N/A | 18.6 | U | | 18.6 | 99.7 | 1.85 |
| **PFTeDA** | | N/A | 18.6 | U | | 18.9 | 102 | 5.69 |
| **PFBS** | | N/A | 18.6 | | 4.03 | 21.6 | 94.1 | 3.66 |
| **PFPeS** | | N/A | 18.6 | | 2.50 | 20.5 | 96.6 | 3.98 |
| **PFHxS** | | N/A | 18.6 | | 8.42 | 26.0 | 94.3 | 0.009 |
| **PFHpS** | | N/A | 18.6 | J | 1.03 | 18.7 | 95.0 | 2.03 |
| **PFOS** | | N/A | 18.6 | | 85.3 | 86.7 | 7.52 | 6.93 |
| **PFNS** | | N/A | 18.6 | U | | 14.1 | 75.6 | 1.72 |
| **PFDS** | | N/A | 18.6 | U | | 15.4 | 82.9 | 2.73 |
| **PFDoS** | | N/A | 18.6 | U | | 15.2 | 81.7 | 6.61 |
| **4:2 FTS** | | N/A | 74.5 | U | | 76.7 | 103 | 4.44 |
| **6:2 FTS** | | N/A | 67.2 | U | | 65.4 | 97.4 | 2.40 |
| **8:2 FTS** | | N/A | 74.5 | U | | 79.0 | 106 | 2.59 |
| **PFOSA** | | N/A | 18.6 | U | | 18.2 | 97.7 | 1.81 |
| **N-MeFOSA** | | N/A | 21.4 | U | | 20.1 | 93.6 | 0.477 |
| **N-EtFOSA** | | N/A | 46.6 | U | | 40.0 | 86.0 | 6.99 |
| **MeFOSAA** | | N/A | 18.6 | U | | 19.5 | 104 | 4.99 |
| **EtFOSAA** | | N/A | 18.6 | U | | 17.3 | 93.1 | 4.55 |
| **N-MeFOSE** | | N/A | 186 | U | | 184 | 98.6 | 1.17 |
| **N-EtFOSE** | | N/A | 140 | U | | 139 | 99.5 | 1.33 |
| **HFPO-DA** | | N/A | 70.8 | U | | 67.4 | 95.3 | 1.91 |
| **ADONA** | | N/A | 74.5 | U | | 73.3 | 98.4 | 4.74 |
| **9Cl-PF3ONS** | | N/A | 74.5 | U | | 77.8 | 104 | 5.04 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 74.5 | U | | 70.9 | 95.2 | 14.3 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 17-Apr-2020 12:32:42; Application: XMLTransformer-1.18.3;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71745-103_L32744-27_Form8C.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520 (MS)**
**Sample Collection: 25-Feb-2020 15:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:42:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 94** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 497 | 2.98 (L) | 1:59 |
| **PFPeA** | | 48.7 | 1.49 (L) | 4:19 |
| **PFHxA** | | 28.4 | 0.745 (L) | 4:54 |
| **PFHpA** | | 22.7 | 0.745 (L) | 5:24 |
| **PFOA** | | 71.0 | 0.745 (L) | |
| **PFNA** | | 18.2 | 0.745 (L) | |
| **PFDA** | | 15.9 | 0.745 (L) | 7:34 |
| **PFUnA** | | 19.0 | 0.745 (L) | 7:54 |
| **PFDoA** | | 17.3 | 0.745 (L) | 8:10 |
| **PFTrDA** | | 18.6 | 0.745 (L) | 8:30 |
| **PFTeDA** | | 18.9 | 0.745 (L) | 8:55 |
| **PFBS** | | 21.6 | 0.745 (L) | 4:52 |
| **PFPeS** | | 20.5 | 0.745 (L) | 5:26 |
| **PFHxS** | | 26.0 | 0.745 (L) | |
| **PFHpS** | | 18.7 | 0.745 (L) | 7:10 |
| **PFOS** | | 86.7 | 0.745 (L) | |
| **PFNS** | | 14.1 | 0.745 (L) | 7:59 |
| **PFDS** | | 15.4 | 0.745 (L) | 8:17 |
| **PFDoS** | | 15.2 | 0.745 (L) | 9:06 |
| **4:2 FTS** | | 76.7 | 2.98 (L) | 4:46 |
| **6:2 FTS** | | 65.4 | 2.68 (L) | 5:52 |
| **8:2 FTS** | | 79.0 | 2.98 (L) | 7:24 |
| **PFOSA** | | 18.2 | 0.745 (L) | |
| **N-MeFOSA** | | 20.1 | 0.857 (L) | |
| **N-EtFOSA** | | 40.0 | 1.86 (L) | |
| **MeFOSAA** | | 19.5 | 0.745 (L) | |
| **EtFOSAA** | | 17.3 | 0.745 (L) | |
| **N-MeFOSE** | | 184 | 7.45 (L) | |
| **N-EtFOSE** | | 139 | 5.59 (L) | |
| **HFPO-DA** | | 67.4 | 2.83 (L) | 5:03 |
| **ADONA** | | 73.3 | 2.98 (L) | 5:38 |
| **9Cl-PF3ONS** | | 77.8 | 2.98 (L) | 7:54 |
| **11Cl-PF3OUdS** | | 70.9 | 2.98 (L) | 8:32 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71745-103_Form1A_FC0L_082S94_SJ2730627.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520 (MS)**
**Sample Collection: 25-Feb-2020 15:35**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:42:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 94** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 29.3 | 73.2 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 92.8 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 9.23 | 92.3 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.71 | 87.1 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.20 | 82.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.09 | 81.8 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.22 | 84.5 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.07 | 81.5 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.04 | 80.8 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.59 | 71.7 | 8:55 |
| **13C3-PFBS** | | 10.0 | 9.03 | 90.3 | 4:52 |
| **13C3-PFHxS** | | 10.0 | 8.67 | 86.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.33 | 93.3 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 16.5 | 82.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.9 | 89.3 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.16 | 81.6 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 7.62 | 76.2 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 7.40 | 74.0 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.5 | 82.6 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 17.3 | 86.3 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 76.3 | 76.3 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 79.9 | 79.9 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.1 | 92.7 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71745-103_Form2_FC0L_082S94_SJ2730627.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420 (MSD)**
**Sample Collection: 24-Feb-2020 15:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.355 L |
| **Extraction Date:** | 17-Mar-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:51:14 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_082 S: 67** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_082 S: 47 |
| | | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 113 | | 89.7 | 199 | 96.9 | 3.22 |
| **PFPeA** | | N/A | 56.4 | | 6.50 | 62.5 | 99.3 | 4.43 |
| **PFHxA** | | N/A | 28.2 | J | 4.86 | 30.9 | 92.4 | 5.23 |
| **PFHpA** | | N/A | 28.2 | J | 1.99 | 28.1 | 92.7 | 1.18 |
| **PFOA** | | N/A | 28.2 | | 7.80 | 33.4 | 90.7 | 5.13 |
| **PFNA** | | N/A | 28.2 | U | | 28.6 | 101 | 2.46 |
| **PFDA** | | N/A | 28.2 | U | | 28.1 | 99.8 | 13.4 |
| **PFUnA** | | N/A | 28.2 | U | | 26.9 | 95.4 | 8.00 |
| **PFDoA** | | N/A | 28.2 | U | | 22.9 | 81.3 | 38.7 |
| **PFTrDA** | | N/A | 28.2 | U | | 28.6 | 101 | 6.78 |
| **PFTeDA** | | N/A | 28.2 | U | | 28.5 | 101 | 4.37 |
| **PFBS** | | N/A | 28.2 | | 2.76 | 30.3 | 97.7 | 5.12 |
| **PFPeS** | | N/A | 28.2 | U | | 29.5 | 105 | 8.88 |
| **PFHxS** | | N/A | 28.2 | J | 3.40 | 30.5 | 96.3 | 5.26 |
| **PFHpS** | | N/A | 28.2 | U | | 28.9 | 103 | 6.29 |
| **PFOS** | | N/A | 28.2 | | 2.36 | 29.3 | 95.6 | 7.95 |
| **PFNS** | | N/A | 28.2 | U | | 29.9 | 106 | 6.23 |
| **PFDS** | | N/A | 28.2 | U | | 24.2 | 85.8 | 0.977 |
| **PFDoS** | | N/A | 28.2 | U | | 22.9 | 81.2 | 1.60 |
| **4:2 FTS** | | N/A | 113 | U | | 120 | 107 | 4.98 |
| **6:2 FTS** | | N/A | 102 | U | | 105 | 103 | 8.84 |
| **8:2 FTS** | | N/A | 113 | U | | 114 | 101 | 6.01 |
| **PFOSA** | | N/A | 28.2 | U | | 27.4 | 97.1 | 1.85 |
| **N-MeFOSA** | | N/A | 32.4 | U | | 32.5 | 100 | 5.28 |
| **N-EtFOSA** | | N/A | 70.5 | U | | 65.5 | 92.9 | 13.6 |
| **MeFOSAA** | | N/A | 28.2 | U | | 29.9 | 106 | 15.6 |
| **EtFOSAA** | | N/A | 28.2 | U | | 27.6 | 97.8 | 2.45 |
| **N-MeFOSE** | | N/A | 282 | U | | 280 | 99.5 | 3.84 |
| **N-EtFOSE** | | N/A | 211 | U | | 210 | 99.3 | 0.977 |
| **HFPO-DA** | | N/A | 107 | U | | 108 | 101 | 7.30 |
| **ADONA** | | N/A | 113 | U | | 110 | 97.3 | 3.64 |
| **9Cl-PF3ONS** | | N/A | 113 | U | | 114 | 101 | 7.36 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 113 | U | | 95.7 | 84.9 | 2.90 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 14-Apr-2020 12:27:38; Application: XMLTransformer-1.18.3;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71744-104_L32744-13_Form8E.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420 (MSD)**
**Sample Collection: 24-Feb-2020 15:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.355 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:51:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 67** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 199 | 4.51 (L) | 1:58 |
| **PFPeA** | | 62.5 | 2.26 (L) | 4:19 |
| **PFHxA** | | 30.9 | 1.13 (L) | 4:54 |
| **PFHpA** | | 28.1 | 1.13 (L) | 5:24 |
| **PFOA** | | 33.4 | 1.13 (L) | |
| **PFNA** | | 28.6 | 1.13 (L) | |
| **PFDA** | | 28.1 | 1.13 (L) | 7:34 |
| **PFUnA** | | 26.9 | 1.13 (L) | 7:54 |
| **PFDoA** | | 22.9 | 1.13 (L) | 8:10 |
| **PFTrDA** | | 28.6 | 1.13 (L) | 8:30 |
| **PFTeDA** | | 28.5 | 1.13 (L) | 8:55 |
| **PFBS** | | 30.3 | 1.13 (L) | 4:51 |
| **PFPeS** | | 29.5 | 1.13 (L) | 5:26 |
| **PFHxS** | | 30.5 | 1.13 (L) | |
| **PFHpS** | | 28.9 | 1.13 (L) | 7:09 |
| **PFOS** | | 29.3 | 1.13 (L) | |
| **PFNS** | | 29.9 | 1.13 (L) | 7:59 |
| **PFDS** | | 24.2 | 1.13 (L) | 8:16 |
| **PFDoS** | | 22.9 | 1.13 (L) | 9:06 |
| **4:2 FTS** | | 120 | 4.51 (L) | 4:46 |
| **6:2 FTS** | | 105 | 4.06 (L) | 5:52 |
| **8:2 FTS** | | 114 | 4.51 (L) | 7:24 |
| **PFOSA** | | 27.4 | 1.13 (L) | |
| **N-MeFOSA** | | 32.5 | 1.30 (L) | |
| **N-EtFOSA** | | 65.5 | 2.82 (L) | |
| **MeFOSAA** | | 29.9 | 1.13 (L) | |
| **EtFOSAA** | | 27.6 | 1.13 (L) | |
| **N-MeFOSE** | | 280 | 11.3 (L) | |
| **N-EtFOSE** | | 210 | 8.46 (L) | |
| **HFPO-DA** | | 108 | 4.29 (L) | 5:03 |
| **ADONA** | | 110 | 4.51 (L) | 5:38 |
| **9Cl-PF3ONS** | | 114 | 4.51 (L) | 7:54 |
| **11Cl-PF3OUdS** | | 95.7 | 4.51 (L) | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71744-104_Form1A_FC0L_082S67_SJ2731026.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17A-WAT-BULK-03-022420 (MSD)**
**Sample Collection: 24-Feb-2020 15:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71744-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.355 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 07:51:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 67** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 47 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.6 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 17.9 | 89.6 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.78 | 87.8 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.76 | 87.6 | 5:24 |
| **13C8-PFOA** | | 10.0 | 8.28 | 82.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.08 | 81.7 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.42 | 88.4 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.37 | 87.5 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 3.86 | 77.1 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.64 | 72.8 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.68 | 86.8 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.54 | 85.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.61 | 86.1 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 16.1 | 80.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 84.9 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 89.1 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.84 | 78.4 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.67 | 66.7 | 10:12 |
| **D5-N-EtFOSA** | | 10.0 | 6.66 | 66.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.4 | 82.0 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 16.4 | 82.1 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 75.7 | 75.7 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 84.8 | 84.8 | 10:22 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 94.0 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71744-104_Form2_FC0L_082S67_SJ2731026.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520 (MSD)**
**Sample Collection:**
**25-Feb-2020 15:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Extraction Date:** | 17-Mar-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:55:30 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_082 S: 95** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_082 S: 74 |
| | | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 73.6 | | 457 | 446 | | 10.8 |
| **PFPeA** | | N/A | 36.8 | | 12.9 | 46.3 | 90.7 | 5.09 |
| **PFHxA** | | N/A | 18.4 | | 12.6 | 27.9 | 83.4 | 1.60 |
| **PFHpA** | | N/A | 18.4 | | 6.04 | 21.9 | 86.1 | 3.43 |
| **PFOA** | | N/A | 18.4 | | 54.7 | 69.1 | 78.3 | 2.62 |
| **PFNA** | | N/A | 18.4 | U | | 18.7 | 101 | 2.84 |
| **PFDA** | | N/A | 18.4 | U | | 18.7 | 102 | 16.6 |
| **PFUnA** | | N/A | 18.4 | U | | 17.2 | 93.5 | 9.66 |
| **PFDoA** | | N/A | 18.4 | U | | 17.5 | 94.8 | 0.856 |
| **PFTrDA** | | N/A | 18.4 | U | | 18.2 | 99.0 | 1.85 |
| **PFTeDA** | | N/A | 18.4 | U | | 17.9 | 97.0 | 5.69 |
| **PFBS** | | N/A | 18.4 | | 4.03 | 20.8 | 91.0 | 3.66 |
| **PFPeS** | | N/A | 18.4 | | 2.50 | 21.3 | 102 | 3.98 |
| **PFHxS** | | N/A | 18.4 | | 8.42 | 26.0 | 95.4 | 0.009 |
| **PFHpS** | | N/A | 18.4 | J | 1.03 | 19.1 | 98.2 | 2.03 |
| **PFOS** | | N/A | 18.4 | | 85.3 | 92.9 | 41.4 | 6.93 |
| **PFNS** | | N/A | 18.4 | U | | 14.3 | 77.8 | 1.72 |
| **PFDS** | | N/A | 18.4 | U | | 15.9 | 86.2 | 2.73 |
| **PFDoS** | | N/A | 18.4 | U | | 14.2 | 77.4 | 6.61 |
| **4:2 FTS** | | N/A | 73.6 | U | | 80.2 | 109 | 4.44 |
| **6:2 FTS** | | N/A | 66.4 | U | | 67.0 | 101 | 2.40 |
| **8:2 FTS** | | N/A | 73.6 | U | | 77.0 | 105 | 2.59 |
| **PFOSA** | | N/A | 18.4 | U | | 18.5 | 101 | 1.81 |
| **N-MeFOSA** | | N/A | 21.2 | U | | 20.1 | 95.2 | 0.477 |
| **N-EtFOSA** | | N/A | 46.0 | U | | 37.3 | 81.1 | 6.99 |
| **MeFOSAA** | | N/A | 18.4 | U | | 18.5 | 101 | 4.99 |
| **EtFOSAA** | | N/A | 18.4 | U | | 18.1 | 98.5 | 4.55 |
| **N-MeFOSE** | | N/A | 184 | U | | 182 | 98.6 | 1.17 |
| **N-EtFOSE** | | N/A | 138 | U | | 137 | 99.3 | 1.33 |
| **HFPO-DA** | | N/A | 70.0 | U | | 66.2 | 94.6 | 1.91 |
| **ADONA** | | N/A | 73.6 | U | | 69.9 | 95.0 | 4.74 |
| **9Cl-PF3ONS** | | N/A | 73.6 | U | | 74.0 | 100 | 5.04 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 73.6 | U | | 61.5 | 83.4 | 14.3 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 17-Apr-2020 12:32:42; Application: XMLTransformer-1.18.3;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG71745-104_L32744-27_Form8E.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520 (MSD)**
**Sample Collection: 25-Feb-2020 15:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:55:30 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 95** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 446 | 2.95 (L) | 1:59 |
| **PFPeA** | | 46.3 | 1.47 (L) | 4:19 |
| **PFHxA** | | 27.9 | 0.736 (L) | 4:54 |
| **PFHpA** | | 21.9 | 0.736 (L) | 5:24 |
| **PFOA** | | 69.1 | 0.736 (L) | |
| **PFNA** | | 18.7 | 0.736 (L) | |
| **PFDA** | | 18.7 | 0.736 (L) | 7:34 |
| **PFUnA** | | 17.2 | 0.736 (L) | 7:54 |
| **PFDoA** | | 17.5 | 0.736 (L) | 8:10 |
| **PFTrDA** | | 18.2 | 0.736 (L) | 8:30 |
| **PFTeDA** | | 17.9 | 0.736 (L) | 8:55 |
| **PFBS** | | 20.8 | 0.736 (L) | 4:52 |
| **PFPeS** | | 21.3 | 0.736 (L) | 5:26 |
| **PFHxS** | | 26.0 | 0.736 (L) | |
| **PFHpS** | | 19.1 | 0.736 (L) | 7:10 |
| **PFOS** | | 92.9 | 0.736 (L) | |
| **PFNS** | | 14.3 | 0.736 (L) | 7:59 |
| **PFDS** | | 15.9 | 0.736 (L) | 8:17 |
| **PFDoS** | | 14.2 | 0.736 (L) | 9:06 |
| **4:2 FTS** | | 80.2 | 2.95 (L) | 4:46 |
| **6:2 FTS** | | 67.0 | 2.65 (L) | 5:52 |
| **8:2 FTS** | | 77.0 | 2.95 (L) | 7:24 |
| **PFOSA** | | 18.5 | 0.736 (L) | |
| **N-MeFOSA** | | 20.1 | 0.847 (L) | |
| **N-EtFOSA** | | 37.3 | 1.84 (L) | |
| **MeFOSAA** | | 18.5 | 0.736 (L) | |
| **EtFOSAA** | | 18.1 | 0.736 (L) | |
| **N-MeFOSE** | | 182 | 7.36 (L) | |
| **N-EtFOSE** | | 137 | 5.52 (L) | |
| **HFPO-DA** | | 66.2 | 2.80 (L) | 5:03 |
| **ADONA** | | 69.9 | 2.95 (L) | 5:38 |
| **9Cl-PF3ONS** | | 74.0 | 2.95 (L) | 7:54 |
| **11Cl-PF3OUdS** | | 61.5 | 2.95 (L) | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFC_FC_LC_PFAS_WG71745-104_Form1A_FC0L_082S95_SJ2730628.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-03-022520 (MSD)**
**Sample Collection: 25-Feb-2020 15:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG71745-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 28-Feb-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 17-Mar-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Mar-2020 **Time:** 13:55:30 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_082 S: 95** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_082 S: 74 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_082 S: 69 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 28.3 | 70.7 | 1:58 |
| **13C5-PFPeA** | | 20.0 | 17.9 | 89.5 | 4:19 |
| **13C5-PFHxA** | | 10.0 | 8.61 | 86.1 | 4:54 |
| **13C4-PFHpA** | | 10.0 | 8.35 | 83.5 | 5:24 |
| **13C8-PFOA** | | 10.0 | 7.89 | 78.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.99 | 79.8 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.49 | 89.8 | 7:34 |
| **13C7-PFUnA** | | 5.00 | 4.54 | 90.9 | 7:54 |
| **13C2-PFDoA** | | 5.00 | 4.03 | 80.7 | 8:10 |
| **13C2-PFTeDA** | | 5.00 | 3.47 | 69.4 | 8:55 |
| **13C3-PFBS** | | 10.0 | 8.57 | 85.7 | 4:51 |
| **13C3-PFHxS** | | 10.0 | 8.10 | 81.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.40 | 84.0 | 7:40 |
| **13C2-4:2 FTS** | | 20.0 | 15.5 | 77.5 | 4:46 |
| **13C2-6:2 FTS** | | 20.0 | 16.2 | 80.9 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.3 | 86.3 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 7.13 | 71.3 | 8:46 |
| **D3-N-MeFOSA** | | 10.0 | 6.91 | 69.1 | 10:11 |
| **D5-N-EtFOSA** | | 10.0 | 6.96 | 69.6 | 10:30 |
| **D3-MeFOSAA** | | 20.0 | 16.1 | 80.3 | 7:38 |
| **D5-EtFOSAA** | | 20.0 | 15.6 | 78.1 | 7:46 |
| **d7-NMe-FOSE** | | 100 | 68.1 | 68.1 | 10:03 |
| **d9-NEt-FOSE** | | 100 | 68.0 | 68.0 | 10:21 |
| **13C3-HFPO-DA** | | 40.0 | 36.9 | 92.4 | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_WG71745-104_Form2_FC0L_082S95_SJ2730628.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| COMPOUND | LAB FLAG [1] | PERCENT RECOVERY (%) CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | CS7 | CS8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 100 | 109 | 102 | 108 | 97.0 | 84.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Henry Huang_____

For Axys Internal Use Only [ XSL Template: FC-Form3A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87225.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

For Axys Internal Use Only [ XSL Template: FC-Form3B.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3B_GS87225.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Henry Huang_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87225.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87225.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:12:43 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:57 | 40.0 | 39.9 | 99.8 |
| **PFPeA** | | 4:19 | 20.0 | 20.3 | 101 |
| **PFHxA** | | 4:54 | 10.0 | 9.64 | 96.4 |
| **PFHpA** | | 5:23 | 10.0 | 9.73 | 97.3 |
| **PFOA** | | 6:11 | 10.0 | 9.54 | 95.4 |
| **PFNA** | | 7:03 | 10.0 | 9.96 | 99.6 |
| **PFDA** | | 7:34 | 10.0 | 9.78 | 97.8 |
| **PFUnA** | | 7:54 | 10.0 | 10.0 | 100 |
| **PFDoA** | | 8:10 | 10.0 | 9.55 | 95.5 |
| **PFTrDA** | | 8:30 | 10.0 | 9.95 | 99.5 |
| **PFTeDA** | | 8:55 | 10.0 | 10.1 | 101 |
| **PFBS** | | 4:51 | 10.0 | 10.1 | 101 |
| **PFPeS** | | 5:25 | 10.0 | 10.2 | 102 |
| **PFHxS** | | 6:17 | 10.0 | 9.93 | 99.3 |
| **PFHpS** | | 7:09 | 10.0 | 9.67 | 96.7 |
| **PFOS** | | 7:40 | 10.0 | 8.89 | 88.9 |
| **PFNS** | | 7:59 | 10.0 | 10.7 | 107 |
| **PFDS** | | 8:16 | 10.0 | 9.83 | 98.3 |
| **PFDoS** | | 9:06 | 10.0 | 9.60 | 96.0 |
| **4:2 FTS** | | 4:46 | 40.0 | 45.1 | 113 |
| **6:2 FTS** | | 5:52 | 36.0 | 34.3 | 95.4 |
| **8:2 FTS** | | 7:24 | 40.0 | 42.3 | 106 |
| **PFOSA** | | 8:46 | 10.0 | 10.4 | 104 |
| **N-MeFOSA** | | 10:12 | 11.5 | 12.6 | 109 |
| **N-EtFOSA** | | 10:31 | 25.0 | 24.8 | 99.0 |
| **MeFOSAA** | | 7:38 | 10.0 | 9.38 | 93.8 |
| **EtFOSAA** | | 7:46 | 10.0 | 9.53 | 95.3 |
| **N-MeFOSE** | | 10:04 | 100 | 96.9 | 96.9 |
| **N-EtFOSE** | | 10:23 | 75.0 | 74.0 | 98.7 |
| **HFPO-DA** | | 5:03 | 40.0 | 39.8 | 99.5 |
| **ADONA** | | 5:38 | 40.0 | 40.0 | 99.9 |
| **9Cl-PF3ONS** | | 7:54 | 40.0 | 44.9 | 112 |
| **11Cl-PF3OUdS** | | 8:31 | 40.0 | 43.2 | 108 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_FC0L_082S41__Form4A_SJ2730996.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:12:43 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:57 | 40.0 | 39.9 | 99.7 |
| **13C5-PFPeA** | | 4:18 | 20.0 | 20.6 | 103 |
| **13C5-PFHxA** | | 4:54 | 10.0 | 9.66 | 96.6 |
| **13C4-PFHpA** | | 5:23 | 10.0 | 9.52 | 95.2 |
| **13C8-PFOA** | | 6:11 | 10.0 | 9.71 | 97.1 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.81 | 96.2 |
| **13C6-PFDA** | | 7:34 | 5.00 | 5.41 | 108 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 5.83 | 117 |
| **13C2-PFDoA** | | 8:10 | 5.00 | 6.12 | 122 |
| **13C2-PFTeDA** | | 8:55 | 5.00 | 5.60 | 112 |
| **13C3-PFBS** | | 4:51 | 9.18 | 9.61 | 105 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.2 | 102 |
| **13C8-PFOS** | | 7:40 | 10.0 | 10.5 | 105 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 21.2 | 106 |
| **13C2-6:2 FTS** | | 5:51 | 20.0 | 18.0 | 90.0 |
| **13C2-8:2 FTS** | | 7:24 | 20.0 | 19.6 | 97.9 |
| **13C8-PFOSA** | | 8:46 | 10.0 | 13.4 | 134 |
| **D3-N-MeFOSA** | | 10:12 | 10.0 | 11.4 | 114 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 10.3 | 103 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 21.1 | 106 |
| **D5-EtFOSAA** | | 7:46 | 20.0 | 24.6 | 123 |
| **d7-NMe-FOSE** | | 10:03 | 100 | 188 | 188 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 145 | 145 |
| **13C3-HFPO-DA** | | 5:03 | 40.0 | 41.2 | 103 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_FC0L_082S41__Form4B_SJ2730996.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 68 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 08:04:11 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 39.7 | 99.2 |
| **PFPeA** | | 4:19 | 20.0 | 20.4 | 102 |
| **PFHxA** | | 4:54 | 10.0 | 9.49 | 94.9 |
| **PFHpA** | | 5:24 | 10.0 | 9.39 | 93.9 |
| **PFOA** | | 6:11 | 10.0 | 9.24 | 92.4 |
| **PFNA** | | 7:03 | 10.0 | 9.51 | 95.1 |
| **PFDA** | | 7:34 | 10.0 | 9.88 | 98.8 |
| **PFUnA** | | 7:54 | 10.0 | 9.97 | 99.7 |
| **PFDoA** | | 8:10 | 10.0 | 10.2 | 102 |
| **PFTrDA** | | 8:30 | 10.0 | 10.3 | 103 |
| **PFTeDA** | | 8:55 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:52 | 10.0 | 10.2 | 102 |
| **PFPeS** | | 5:26 | 10.0 | 10.7 | 107 |
| **PFHxS** | | 6:17 | 10.0 | 9.96 | 99.6 |
| **PFHpS** | | 7:10 | 10.0 | 9.69 | 96.9 |
| **PFOS** | | 7:40 | 10.0 | 9.09 | 90.9 |
| **PFNS** | | 7:59 | 10.0 | 10.7 | 107 |
| **PFDS** | | 8:16 | 10.0 | 9.24 | 92.4 |
| **PFDoS** | | 9:06 | 10.0 | 9.49 | 94.9 |
| **4:2 FTS** | | 4:46 | 40.0 | 44.2 | 111 |
| **6:2 FTS** | | 5:52 | 36.0 | 35.3 | 98.0 |
| **8:2 FTS** | | 7:24 | 40.0 | 39.7 | 99.4 |
| **PFOSA** | | 8:46 | 10.0 | 10.3 | 103 |
| **N-MeFOSA** | | 10:12 | 11.5 | 12.0 | 105 |
| **N-EtFOSA** | | 10:30 | 25.0 | 23.8 | 95.3 |
| **MeFOSAA** | | 7:38 | 10.0 | 10.6 | 106 |
| **EtFOSAA** | | 7:46 | 10.0 | 10.3 | 103 |
| **N-MeFOSE** | | 10:04 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:23 | 75.0 | 77.2 | 103 |
| **HFPO-DA** | | 5:03 | 40.0 | 40.5 | 101 |
| **ADONA** | | 5:38 | 40.0 | 40.3 | 101 |
| **9Cl-PF3ONS** | | 7:54 | 40.0 | 40.9 | 102 |
| **11Cl-PF3OUdS** | | 8:31 | 40.0 | 41.3 | 103 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_FC0L_082S68__Form4A_SJ2731027.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 68 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 08:04:11 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:58 | 40.0 | 40.1 | 100 |
| **13C5-PFPeA** | | 4:19 | 20.0 | 20.2 | 101 |
| **13C5-PFHxA** | | 4:54 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:24 | 10.0 | 10.8 | 108 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.2 | 102 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.87 | 97.4 |
| **13C6-PFDA** | | 7:34 | 5.00 | 5.17 | 103 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 5.13 | 103 |
| **13C2-PFDoA** | | 8:10 | 5.00 | 5.15 | 103 |
| **13C2-PFTeDA** | | 8:55 | 5.00 | 4.99 | 99.9 |
| **13C3-PFBS** | | 4:51 | 9.18 | 10.0 | 109 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:40 | 10.0 | 12.8 | 128 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 20.3 | 101 |
| **13C2-6:2 FTS** | | 5:52 | 20.0 | 22.8 | 114 |
| **13C2-8:2 FTS** | | 7:24 | 20.0 | 22.6 | 113 |
| **13C8-PFOSA** | | 8:46 | 10.0 | 11.4 | 114 |
| **D3-N-MeFOSA** | | 10:12 | 10.0 | 12.8 | 128 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 12.9 | 129 |
| **D3-MeFOSAA** | | 7:38 | 20.0 | 22.3 | 111 |
| **D5-EtFOSAA** | | 7:46 | 20.0 | 22.8 | 114 |
| **d7-NMe-FOSE** | | 10:03 | 100 | 126 | 126 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 138 | 138 |
| **13C3-HFPO-DA** | | 5:03 | 40.0 | 42.0 | 105 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 14-Apr-2020 12:20:26; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_FC0L_082S68__Form4B_SJ2731027.html; Workgroup: WG71744; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 69 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 08:17:07 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 40.1 | 100 |
| **PFPeA** | | 4:19 | 20.0 | 20.2 | 101 |
| **PFHxA** | | 4:54 | 10.0 | 9.94 | 99.4 |
| **PFHpA** | | 5:24 | 10.0 | 9.92 | 99.2 |
| **PFOA** | | 6:11 | 10.0 | 9.45 | 94.5 |
| **PFNA** | | 7:03 | 10.0 | 9.69 | 96.9 |
| **PFDA** | | 7:34 | 10.0 | 11.4 | 114 |
| **PFUnA** | | 7:54 | 10.0 | 9.33 | 93.3 |
| **PFDoA** | | 8:10 | 10.0 | 8.18 | 81.8 |
| **PFTrDA** | | 8:30 | 10.0 | 9.93 | 99.3 |
| **PFTeDA** | | 8:55 | 10.0 | 10.5 | 105 |
| **PFBS** | | 4:52 | 10.0 | 9.72 | 97.2 |
| **PFPeS** | | 5:26 | 10.0 | 10.6 | 106 |
| **PFHxS** | | 6:17 | 10.0 | 10.7 | 107 |
| **PFHpS** | | 7:10 | 10.0 | 10.0 | 100 |
| **PFOS** | | 7:40 | 10.0 | 10.0 | 100 |
| **PFNS** | | 7:59 | 10.0 | 10.5 | 105 |
| **PFDS** | | 8:16 | 10.0 | 10.1 | 101 |
| **PFDoS** | | 9:06 | 10.0 | 10.2 | 102 |
| **4:2 FTS** | | 4:46 | 40.0 | 41.4 | 103 |
| **6:2 FTS** | | 5:52 | 36.0 | 33.9 | 94.2 |
| **8:2 FTS** | | 7:24 | 40.0 | 40.5 | 101 |
| **PFOSA** | | 8:46 | 10.0 | 9.81 | 98.1 |
| **N-MeFOSA** | | 10:12 | 11.5 | 12.4 | 108 |
| **N-EtFOSA** | | 10:31 | 25.0 | 23.0 | 92.0 |
| **MeFOSAA** | | 7:38 | 10.0 | 10.2 | 102 |
| **EtFOSAA** | | 7:46 | 10.0 | 9.58 | 95.8 |
| **N-MeFOSE** | | 10:04 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:23 | 75.0 | 79.6 | 106 |
| **HFPO-DA** | | 5:03 | 40.0 | 40.1 | 100 |
| **ADONA** | | 5:38 | 40.0 | 40.7 | 102 |
| **9Cl-PF3ONS** | | 7:54 | 40.0 | 41.3 | 103 |
| **11Cl-PF3OUdS** | | 8:31 | 40.0 | 44.7 | 112 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_FC0L_082S69__Form4A_SJ2730598.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 69 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 08:17:07 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:58 | 40.0 | 39.9 | 99.7 |
| **13C5-PFPeA** | | 4:19 | 20.0 | 21.0 | 105 |
| **13C5-PFHxA** | | 4:54 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:24 | 10.0 | 9.81 | 98.1 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.1 | 101 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.78 | 95.5 |
| **13C6-PFDA** | | 7:34 | 5.00 | 4.65 | 93.0 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 5.33 | 107 |
| **13C2-PFDoA** | | 8:10 | 5.00 | 5.19 | 104 |
| **13C2-PFTeDA** | | 8:55 | 5.00 | 5.00 | 100 |
| **13C3-PFBS** | | 4:51 | 9.18 | 9.57 | 104 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 9.66 | 96.6 |
| **13C8-PFOS** | | 7:40 | 10.0 | 9.91 | 99.1 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 21.0 | 105 |
| **13C2-6:2 FTS** | | 5:52 | 20.0 | 22.0 | 110 |
| **13C2-8:2 FTS** | | 7:24 | 20.0 | 22.1 | 111 |
| **13C8-PFOSA** | | 8:46 | 10.0 | 9.44 | 94.4 |
| **D3-N-MeFOSA** | | 10:12 | 10.0 | 10.1 | 101 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 10.7 | 107 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 19.3 | 96.5 |
| **D5-EtFOSAA** | | 7:46 | 20.0 | 19.0 | 95.1 |
| **d7-NMe-FOSE** | | 10:03 | 100 | 100 | 100 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 112 | 112 |
| **13C3-HFPO-DA** | | 5:03 | 40.0 | 42.3 | 106 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_FC0L_082S69__Form4B_SJ2730598.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 96 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 14:08:28 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 39.7 | 99.3 |
| **PFPeA** | | 4:19 | 20.0 | 20.3 | 102 |
| **PFHxA** | | 4:54 | 10.0 | 9.73 | 97.3 |
| **PFHpA** | | 5:24 | 10.0 | 10.1 | 101 |
| **PFOA** | | 6:11 | 10.0 | 9.31 | 93.1 |
| **PFNA** | | 7:03 | 10.0 | 9.95 | 99.5 |
| **PFDA** | | 7:34 | 10.0 | 9.58 | 95.8 |
| **PFUnA** | | 7:54 | 10.0 | 9.78 | 97.8 |
| **PFDoA** | | 8:10 | 10.0 | 12.5 | 125 |
| **PFTrDA** | | 8:29 | 10.0 | 9.99 | 99.9 |
| **PFTeDA** | | 8:55 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:51 | 10.0 | 9.88 | 98.8 |
| **PFPeS** | | 5:26 | 10.0 | 10.5 | 105 |
| **PFHxS** | | 6:18 | 10.0 | 10.4 | 104 |
| **PFHpS** | | 7:10 | 10.0 | 9.73 | 97.3 |
| **PFOS** | | 7:40 | 10.0 | 10.0 | 100 |
| **PFNS** | | 7:59 | 10.0 | 8.15 | 81.5 |
| **PFDS** | | 8:16 | 10.0 | 9.97 | 99.7 |
| **PFDoS** | | 9:06 | 10.0 | 9.87 | 98.7 |
| **4:2 FTS** | | 4:46 | 40.0 | 48.5 | 121 |
| **6:2 FTS** | | 5:52 | 36.0 | 33.6 | 93.3 |
| **8:2 FTS** | | 7:24 | 40.0 | 41.2 | 103 |
| **PFOSA** | | 8:45 | 10.0 | 10.3 | 103 |
| **N-MeFOSA** | | 10:12 | 11.5 | 12.6 | 110 |
| **N-EtFOSA** | | 10:31 | 25.0 | 24.2 | 96.8 |
| **MeFOSAA** | | 7:37 | 10.0 | 9.34 | 93.4 |
| **EtFOSAA** | | 7:46 | 10.0 | 10.0 | 100 |
| **N-MeFOSE** | | 10:04 | 100 | 101 | 101 |
| **N-EtFOSE** | | 10:23 | 75.0 | 77.8 | 104 |
| **HFPO-DA** | | 5:03 | 40.0 | 38.9 | 97.3 |
| **ADONA** | | 5:38 | 40.0 | 40.4 | 101 |
| **9Cl-PF3ONS** | | 7:53 | 40.0 | 41.8 | 104 |
| **11Cl-PF3OUdS** | | 8:31 | 40.0 | 39.8 | 99.5 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_FC0L_082S96__Form4A_SJ2730629.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_082 S: 96 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Mar-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 14:08:28 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:58 | 40.0 | 39.9 | 99.6 |
| **13C5-PFPeA** | | 4:19 | 20.0 | 21.1 | 105 |
| **13C5-PFHxA** | | 4:54 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:24 | 10.0 | 10.0 | 100 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.1 | 101 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.85 | 97.0 |
| **13C6-PFDA** | | 7:34 | 5.00 | 5.07 | 101 |
| **13C7-PFUnA** | | 7:54 | 5.00 | 4.80 | 96.0 |
| **13C2-PFDoA** | | 8:10 | 5.00 | 3.80 | 76.1 |
| **13C2-PFTeDA** | | 8:55 | 5.00 | 4.67 | 93.4 |
| **13C3-PFBS** | | 4:51 | 9.18 | 9.58 | 104 |
| **13C3-PFHxS** | | 6:18 | 10.0 | 9.90 | 99.0 |
| **13C8-PFOS** | | 7:40 | 10.0 | 10.7 | 107 |
| **13C2-4:2 FTS** | | 4:46 | 20.0 | 19.0 | 95.0 |
| **13C2-6:2 FTS** | | 5:52 | 20.0 | 22.2 | 111 |
| **13C2-8:2 FTS** | | 7:24 | 20.0 | 22.3 | 112 |
| **13C8-PFOSA** | | 8:45 | 10.0 | 9.32 | 93.2 |
| **D3-N-MeFOSA** | | 10:12 | 10.0 | 9.72 | 97.2 |
| **D5-N-EtFOSA** | | 10:30 | 10.0 | 9.67 | 96.7 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 20.1 | 101 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 20.1 | 101 |
| **d7-NMe-FOSE** | | 10:03 | 100 | 93.7 | 93.7 |
| **d9-NEt-FOSE** | | 10:22 | 100 | 94.4 | 94.4 |
| **13C3-HFPO-DA** | | 5:03 | 40.0 | 43.5 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_FC0L_082S96__Form4B_SJ2730629.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_103 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Apr-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 12:30:57 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:01 | 40.0 | 40.8 | 102 |
| **PFPeA** | | 4:20 | 20.0 | 20.1 | 101 |
| **PFHxA** | | 4:55 | 10.0 | 9.57 | 95.7 |
| **PFHpA** | | 5:26 | 10.0 | 9.86 | 98.6 |
| **PFOA** | | 6:14 | 10.0 | 9.46 | 94.6 |
| **PFNA** | | 7:05 | 10.0 | 10.2 | 102 |
| **PFDA** | | 7:35 | 10.0 | 9.60 | 96.0 |
| **PFUnA** | | 7:55 | 10.0 | 9.87 | 98.7 |
| **PFDoA** | | 8:12 | 10.0 | 10.5 | 105 |
| **PFTrDA** | | 8:33 | 10.0 | 10.4 | 104 |
| **PFTeDA** | | 8:59 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:52 | 10.0 | 9.80 | 98.0 |
| **PFPeS** | | 5:27 | 10.0 | 10.8 | 108 |
| **PFHxS** | | 6:20 | 10.0 | 9.42 | 94.2 |
| **PFHpS** | | 7:11 | 10.0 | 10.0 | 100 |
| **PFOS** | | 7:41 | 10.0 | 9.16 | 91.6 |
| **PFNS** | | 8:00 | 10.0 | 10.4 | 104 |
| **PFDS** | | 8:19 | 10.0 | 9.82 | 98.2 |
| **PFDoS** | | 9:10 | 10.0 | 9.78 | 97.8 |
| **4:2 FTS** | | 4:47 | 40.0 | 45.4 | 113 |
| **6:2 FTS** | | 5:54 | 36.0 | 34.4 | 95.5 |
| **8:2 FTS** | | 7:25 | 40.0 | 38.1 | 95.3 |
| **PFOSA** | | 8:41 | 10.0 | 9.97 | 99.7 |
| **N-MeFOSA** | | 10:10 | 11.5 | 11.2 | 97.1 |
| **N-EtFOSA** | | 10:29 | 25.0 | 18.5 | 74.0 |
| **MeFOSAA** | | 7:38 | 10.0 | 9.73 | 97.3 |
| **EtFOSAA** | | 7:47 | 10.0 | 9.12 | 91.2 |
| **N-MeFOSE** | | 10:02 | 100 | 89.0 | 89.0 |
| **N-EtFOSE** | | 10:21 | 75.0 | 57.3 | 76.4 |
| **HFPO-DA** | | 5:04 | 40.0 | 40.8 | 102 |
| **ADONA** | | 5:40 | 40.0 | 41.9 | 105 |
| **9Cl-PF3ONS** | | 7:55 | 40.0 | 43.0 | 108 |
| **11Cl-PF3OUdS** | | 8:34 | 40.0 | 42.2 | 105 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_FC0L_103S12__Form4A_SJ2732964.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_103 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Apr-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 12:30:57 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:01 | 40.0 | 40.3 | 101 |
| **13C5-PFPeA** | | 4:20 | 20.0 | 20.3 | 102 |
| **13C5-PFHxA** | | 4:55 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:25 | 10.0 | 11.0 | 110 |
| **13C8-PFOA** | | 6:13 | 10.0 | 10.4 | 104 |
| **13C9-PFNA** | | 7:05 | 5.00 | 4.93 | 98.5 |
| **13C6-PFDA** | | 7:35 | 5.00 | 5.09 | 102 |
| **13C7-PFUnA** | | 7:55 | 5.00 | 4.97 | 99.4 |
| **13C2-PFDoA** | | 8:12 | 5.00 | 4.62 | 92.3 |
| **13C2-PFTeDA** | | 8:59 | 5.00 | 4.22 | 84.3 |
| **13C3-PFBS** | | 4:52 | 9.18 | 9.55 | 104 |
| **13C3-PFHxS** | | 6:20 | 10.0 | 9.91 | 99.1 |
| **13C8-PFOS** | | 7:41 | 10.0 | 10.5 | 105 |
| **13C2-4:2 FTS** | | 4:47 | 20.0 | 11.2 | 56.1 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 10.1 | 50.5 |
| **13C2-8:2 FTS** | | 7:25 | 20.0 | 10.1 | 50.5 |
| **13C8-PFOSA** | | 8:41 | 10.0 | 8.43 | 84.3 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 8.93 | 89.3 |
| **D5-N-EtFOSA** | | 10:28 | 10.0 | 8.96 | 89.6 |
| **D3-MeFOSAA** | | 7:38 | 20.0 | 12.6 | 62.9 |
| **D5-EtFOSAA** | | 7:47 | 20.0 | 11.6 | 58.0 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 80.8 | 80.8 |
| **d9-NEt-FOSE** | | 10:20 | 100 | 81.2 | 81.2 |
| **13C3-HFPO-DA** | | 5:04 | 40.0 | 41.3 | 103 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_FC0L_103S12__Form4B_SJ2732964.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_103 S: 28 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Apr-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 15:59:14 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:01 | 40.0 | 40.6 | 101 |
| **PFPeA** | | 4:20 | 20.0 | 20.1 | 101 |
| **PFHxA** | | 4:55 | 10.0 | 9.89 | 98.9 |
| **PFHpA** | | 5:26 | 10.0 | 9.81 | 98.1 |
| **PFOA** | | 6:13 | 10.0 | 9.34 | 93.4 |
| **PFNA** | | 7:05 | 10.0 | 10.5 | 105 |
| **PFDA** | | 7:35 | 10.0 | 10.1 | 101 |
| **PFUnA** | | 7:55 | 10.0 | 9.99 | 99.9 |
| **PFDoA** | | 8:12 | 10.0 | 10.8 | 108 |
| **PFTrDA** | | 8:32 | 10.0 | 11.5 | 115 |
| **PFTeDA** | | 8:59 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:52 | 10.0 | 9.91 | 99.1 |
| **PFPeS** | | 5:27 | 10.0 | 11.0 | 110 |
| **PFHxS** | | 6:20 | 10.0 | 9.50 | 95.0 |
| **PFHpS** | | 7:11 | 10.0 | 10.5 | 105 |
| **PFOS** | | 7:41 | 10.0 | 9.62 | 96.2 |
| **PFNS** | | 8:00 | 10.0 | 11.2 | 112 |
| **PFDS** | | 8:18 | 10.0 | 9.77 | 97.7 |
| **PFDoS** | | 9:10 | 10.0 | 9.92 | 99.2 |
| **4:2 FTS** | | 4:47 | 40.0 | 44.6 | 111 |
| **6:2 FTS** | | 5:54 | 36.0 | 35.3 | 98.0 |
| **8:2 FTS** | | 7:25 | 40.0 | 42.0 | 105 |
| **PFOSA** | | 8:41 | 10.0 | 9.61 | 96.1 |
| **N-MeFOSA** | | 10:10 | 11.5 | 11.4 | 99.5 |
| **N-EtFOSA** | | 10:28 | 25.0 | 18.8 | 75.3 |
| **MeFOSAA** | | 7:38 | 10.0 | 7.06 | 70.6 |
| **EtFOSAA** | | 7:47 | 10.0 | 8.35 | 83.5 |
| **N-MeFOSE** | | 10:02 | 100 | 88.4 | 88.4 |
| **N-EtFOSE** | | 10:21 | 75.0 | 56.7 | 75.5 |
| **HFPO-DA** | | 5:04 | 40.0 | 41.0 | 103 |
| **ADONA** | | 5:40 | 40.0 | 41.0 | 102 |
| **9Cl-PF3ONS** | | 7:55 | 40.0 | 42.4 | 106 |
| **11Cl-PF3OUdS** | | 8:34 | 40.0 | 40.6 | 101 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3; Report Filename: PFOA_FC_LC_FC0L_103S28__Form4A_SJ2732971.html; Workgroup: WG71745; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_103 S: 28 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Apr-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 15:59:14 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 2:01 | 40.0 | 40.1 | 100 |
| **13C5-PFPeA** | | 4:20 | 20.0 | 21.3 | 107 |
| **13C5-PFHxA** | | 4:55 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:25 | 10.0 | 10.3 | 103 |
| **13C8-PFOA** | | 6:13 | 10.0 | 9.98 | 99.8 |
| **13C9-PFNA** | | 7:05 | 5.00 | 4.89 | 97.7 |
| **13C6-PFDA** | | 7:35 | 5.00 | 4.89 | 97.7 |
| **13C7-PFUnA** | | 7:55 | 5.00 | 4.80 | 96.0 |
| **13C2-PFDoA** | | 8:12 | 5.00 | 4.73 | 94.6 |
| **13C2-PFTeDA** | | 8:59 | 5.00 | 3.90 | 78.0 |
| **13C3-PFBS** | | 4:52 | 9.18 | 9.59 | 105 |
| **13C3-PFHxS** | | 6:20 | 10.0 | 10.2 | 102 |
| **13C8-PFOS** | | 7:41 | 10.0 | 9.42 | 94.2 |
| **13C2-4:2 FTS** | | 4:47 | 20.0 | 11.7 | 58.7 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 10.3 | 51.5 |
| **13C2-8:2 FTS** | | 7:25 | 20.0 | 9.94 | 49.7 |
| **13C8-PFOSA** | | 8:41 | 10.0 | 8.05 | 80.5 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 8.37 | 83.7 |
| **D5-N-EtFOSA** | | 10:28 | 10.0 | 8.41 | 84.1 |
| **D3-MeFOSAA** | | 7:38 | 20.0 | 11.7 | 58.6 |
| **D5-EtFOSAA** | | 7:47 | 20.0 | 11.6 | 57.9 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 79.9 | 79.9 |
| **d9-NEt-FOSE** | | 10:20 | 100 | 79.6 | 79.6 |
| **13C3-HFPO-DA** | | 5:04 | 40.0 | 42.5 | 106 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 17-Apr-2020 12:29:32; Application: XMLTransformer-1.18.3;
Report Filename: PFOA_FC_LC_FC0L_103S28__Form4B_SJ2732971.html; Workgroup: WG71745; Design ID: 3769 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | | | | | Y | | | Y | Y | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG72576**

**Analysis WG72411**

## 4 June 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**

**4095:** L33047-1 to -6

**Project name: P1007/60608807**
**Work order number: 3000025335**

**04 June 2020**

## NARRATIVE

This narrative describes the analysis of six aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 7th and 8th of May 2020. The temperature of the samples upon receipt ranged from 5.2˚C to 7.6ºC which was above the method recommended arrival temperature of 0-4°C. The samples were stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were all analyzed in one analysis batch designated as WG72411; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of a laboratory procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample and a duplicate of the OPR sample (OPR DUP). The laboratory procedural blank, OPR and OPR DUP samples were all prepared using Canadian Springs water as the matrix.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 500 mL of sample was accurately weighed and then spiked with isotopically labeled quantification standards. Each sample was then extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L33047-X; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra “test suffix” code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix and combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
N = target analyte recovery for the OPR or OPR DUP sample was not within the contract specific criteria limits
U = identifies a compound that was not detected
V = surrogate recovery (as a percentage) was not within the contract specific criteria limits

For all target analytes, the results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The field and QC samples were analyzed in one analysis batch and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Target analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank and labeled compound recovery specifications were met with the following exceptions:

For the OPR DUP sample (SGS AXYS ID: WG72411-103), the percent recovery for the target analyte PFDoA (77.8%) was below the client specified upper criteria limit (80%) and was flagged with an 'N'. The same result met the SGS AXYS upper method criteria limit (70%). Other data was not considered to be affected.

For the RC21-WAT-BULK-01-042320 sample (SGS AXYS ID: L33047-4), the percent recovery for the surrogate compound 13C4-PFBA (44.6%) was below both the client specified and SGS AXYS method lower criteria limits (50%) and was flagged with a 'V'. As the isotope dilution method of quantification produces data that is recovery corrected, this variance from method criteria was deemed to not affect the quantification of the related target analyte. Percent surrogate recoveries are used as general method performance indicator only.

**ANALYTICAL DISCUSSION**

No analytical difficulties were encountered.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72576. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Andrew Porat — 04-June 2020

Andrew Porat, Data Validation Chemist — Date Signed

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**SGS AXYS Analytical Services Ltd.**

[redacted]

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentrat ion of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG72576** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72411-101 |
| OPR | WG72411-102 |
| OPR DUPLICATE | WG72411-103 |
| | |
| 392602613575 | L33047-1 |
| 392602993191 | L33047-2 |
| 392602814934 | L33047-3 |
| RC21-WAT-BULK-01-042320 | L33047-4 |
| EP21-WAT-BULK-01-042320 | L33047-5 |
| EP21-WAT-BULK-01-042420 | L33047-6 |

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# CHAIN OF CUSTODY

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | | INVOICE TO: | |
|---|---|---|---|
| Company | AECOM | Company | |
| Address | 800 Lasalle Ave S Ste 1100 Minneapolis, MN 55402 | Address | |
| Contact | Andrew Tarara | Contact | |
| Phone | 612-376-2452 | Phone | |
| FAX | | FAX | |
| E-mail | andrewtarara@aecom.com | E-mail | |

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning

Signature:

ANALYSIS REQUESTED: MA-110, Tripblank

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MA-110 | Tripblank | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC14-SED-WET-0-6-01-043020 | S | 4/30/20 | 1130 | HDPE/1 | L33050-27 | X | | | | |
| RC14-SED-WET-0-6-02-043020 | S | 4/30/20 | 1145 | HDPE/1 | -28 | X | | | | |
| RC14-SED-WET-6-12-01-043020 | S | 4/30/20 | 1200 | HDPE/1 | -29 | X | | | | |
| EP21-SED-BEACH-FOAM-01-050520 | S | 5/5/20 | 1530 | HDPE/1 | ~~-46~~ 47 (DPR 13-May-20 | X | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Tripblank | | | | | L33047-1 | X | X | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlson Date 07 May 2020 Time 10:35 | | 8490205 4418 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time | Sample Receipt | |

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

www.axysanalytical.com

SGS AXYS

2 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| ***REPORT TO:*** | ***INVOICE TO:*** |
|---|---|
| Company | Company |
| Address: See pg 1 | Address |
| Contact | Contact |
| Phone | Phone |
| FAX | FAX |
| E-mail | E-mail |
| Project Name/Number: | Sampler's Name: Amanda Langin |
| | Signature: |

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MYA-110 | TOPIA |
|---|---|---|---|---|---|---|---|
| RC5-SED-0-4-01-042420 | S | 4/24/20 | 1000 | HDPE/1 | L33050-10 | X | X |
| RC5-SED-4-6-01-042420 | S | 4/24/20 | 1015 | | -11 | X | X |
| RC5-SED-22-26-01-042420 | S | 4/24/20 | 1030 | | -12 | X | X |
| RC5-SED-WET-3-12-01-042420 | S | 4/24/20 | 1045 | | -13 | X | X |
| RC5-SED-WET-12-18-01-042420 | S | 4/24/20 | 1100 | | -14 | X | X |
| RC6-SED-WET-0-6-01-042420 | S | 4/24/20 | 1120 | | -15 | X | X |
| RC6-SED-WET-12-18-01-042420 | S | 4/24/20 | 1140 | | -16 | X | X |
| RC3-SED-WET-0-6-01-042520 | S | 4/25/20 | 0900 | | -17 | X | X |
| RC3-SED-WET-12-18-01-042520 | S | 4/25/20 | 0915 | | -18 | X | X |
| RC3A-SED-WET-0-6-01-042520 | S | 4/25/20 | 0930 | HDPE/2 | L33049-2 | X | X |
| RCR-SED-0-6-01-042520 | S | 4/25/20 | 1015 | HDPE/1 | -3 | X | X |

| | | | |
|---|---|---|---|
| Relinquished by (Signature) | Date 5/6/20 | Time 1600 | Received by (Signature) Jennifer Carlson Date 07 May 2020 Time 10:35 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time |

Courier: Waybill No. 8149 0205 4430

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

S 4/28/20 — HDPE/1

Triplicate L33049-2

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SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 2 of 2

| REPORT TO: | INVOICE TO: |
|---|---|
| Company | Company |
| Address See page 1 | Address See page 1 |
| Contact | Contact |
| Phone | Phone |
| FAX | FAX |
| E-mail | E-mail |

Project Name/Number: P1007/606.18753

Sampler's Name: Amanda Lanning

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MUA-110 | MS/MSD | TRIP Blank |
|---|---|---|---|---|---|---|---|---|
| BP1-SED-0-6-01-042720 | S | 4/27/20 | 1100 | HDPE/1 | L33050-41 | X | | |
| VB1-SED-COMP-0-6-01-042720 | S | 4/29/20 | 1200 | | -42 | X | | |
| VB3-SED-COMP-0-6-01-042720 | S | 4/27/20 | 1230 | | -43 | X | | |
| VB3-SED-COMP-0-6-02-042720 | S | 4/27/20 | 1235 | | -44 | X | | |
| VB3-SED-COMP-0-6-03-042720 | S | 4/27/20 | 1240 | | -45 | X | X | |
| TRIP Blank | W | 5/6/20 | — | HDPE/1 | L33047-3 | X | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| | 5/6/20 | 1600 | Jennifer Carlsen | | 8149 0205 4407 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Sample Receipt | |
| | | | Date 08 MAY 2020 Time 08:25 | | |
| Remarks | | | Date Time | | |

| Sample Receipt | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

# CHAIN OF CUSTODY

1 of 2

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | | INVOICE TO: | |
|---|---|---|---|
| Company | AECOM | Company | |
| Address | 800 LaSalle Ave S<br>Ste 1100<br>Minneapolis, MN 55402 | Address | SAME |
| Contact | Andrew Tarara | Contact | |
| Phone | 612-376-2452 | Phone | |
| FAX | | FAX | |
| E-mail | andrew.tarara@aecom.com | E-mail | |

Project Name/Number: 89067/60618753

Sampler's Name: Amanda Lanning

Signature:

ANALYSIS REQUESTED: MW9-110

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MW9-110 |
|---|---|---|---|---|---|---|
| EP21-SED-0-6-01-042520 | S | 4/25/20 | 1030 | HDPE/1 | L33050-19 | X |
| EP17-SED-WET-0-6-01-042520 | S | 4/25/20 | 1215 | | -20 | X |
| EP17-SED-WET-6-12-01-042520 | S | 4/25/20 | 1230 | | -21 | X |
| EP17-SED-0-6-01-042520 | S | 4/25/20 | 1245 | | -22 | X |
| EP19-SED-WET-0-6-01-042520 | S | 4/25/20 | 1315 | | -23 | X |
| EP19-SED-WET-6-12-01-042520 | S | 4/25/20 | 1330 | | -24 | X |
| EP19-SED-24-30-01-042520 | S | 4/25/20 | 1345 | | -25 | X |
| EP19-SED-36-42-01-042520 | S | 4/25/20 | 1400 | | -26 | X |
| ✓ RC21-WAT-BULK-01-042320 | W | 4/23/20 | 1400 | HDPE/4 | L33047-4 | X |
| ✓ EP21-WAT-BULK-01-042320 | W | 4/23/20 | 1300 | HDPE/2 | -5 | X |
| ✓ EP21-WAT-BULK-01-042420 | W | 4/24/20 | 1425 | HDPE/4 | -6 | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlson<br>Date 07 May 2020 Time 10:35 | | 8149 0205 4418 |
| Relinquished by (Signature) | Date | Time | Received by (Signature)<br>Date Time | Sample Receipt | |

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

*** indicates a required field**

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

| PROJECT/CLIENT INFO | | | LABORATORY |
|---|---|---|---|
| Facility Code:* | SR0001491 | Program Code (MDH Lab Only): | Lab Name: |
| Project Name:* | Project 1007 | Project Task Code:* PRJ08141 | Address: |
| Project Manager: | Andrew Tarara | | |
| Potential Hazard? | If yes, add information to **Sampler Comments** field | | EPA Lab ID:* |

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | End Date (mm/dd/yyyy) | End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. FF | ANALYSIS* | MLA-110 | | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIELDQC | 392602613575 | QC-TB | 06/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | X | | L33047-1 | 1 |
| FIELDQC | 392602993191 | QC-TB | 06/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | X | | L33047-2 | 2 |
| FIELDQC | 392602814934 | QC-TB | 06/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | X | | L33047-3 | 3 |
| S016-280 | RC21-WAT-BULK-01-042320 | Sample | 23/04/2020 | 1400 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33047-4 | 4 |
| 82-0106-00-303 | EP21-WAT-BULK-01-042320 | Sample | 23/04/2020 | 1300 | | | | G | | | NW | | Wtr-Surf | | | 2 | | | X | | L33047-5 | 5 |
| 82-0106-00-303 | EP21-WAT-BULK-01-042420 | Sample | 24/04/2020 | 1425 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33047-6 | 6 |
| | | | | | | | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | | | | | | | | | | |

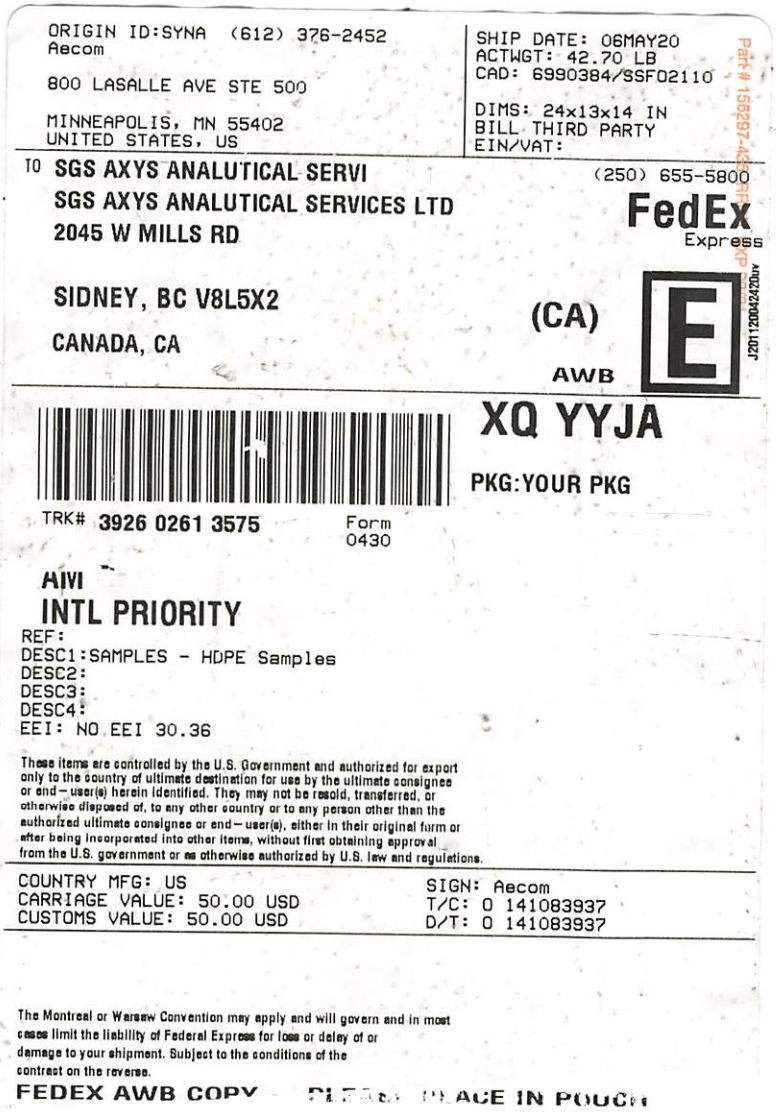
| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |

**Receiving Comments:**

| Relinquished By/Affiliation | Date/Time | Accepted By/Affiliation | Date/Time |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

WB27446



ORIGIN ID:SYNA (612) 376-2452
Aecom
800 LASALLE AVE STE 500
MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 42.70 LB
CAD: 6990384/SSF02110
DIMS: 24x13x14 IN
BILL THIRD PARTY
EIN/VAT:

TO SGS AXYS ANALUTICAL SERVI
SGS AXYS ANALUTICAL SERVICES LTD
2045 W MILLS RD
SIDNEY, BC V8L5X2
CANADA, CA

(250) 655-5800

FedEx Express

(CA)

AWB

XQ YYJA

PKG:YOUR PKG

TRK# 3926 0261 3575

Form 0430

AIVI
INTL PRIORITY

REF:
DESC1:SAMPLES - HDPE Samples
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 50.00 USD
CUSTOMS VALUE: 50.00 USD

SIGN: Aecom
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

FEDEX AWB COPY - PLEASE PLACE IN POUCH

10:35

RECEIVED
MAY 07 2020
Jennifer Carlson

5728

5.4°C

bagged wet ice melting

4095

ORIGIN ID:SYNA (612) 376-2452
Aecom
800 LASALLE AVE STE 500
MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 49.75 LB
CAD: 6990384/SSF02110
DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

TO SGS AXYS ANALUTICAL SERVI (250) 655-5800
SGS AXYS ANALUTICAL SERVICES LTD
2045 W MILLS RD
SIDNEY, BC V8L5X2 (CA)
CANADA, CA

FedEx Express

AWB

XQ YYJA
AHS
PKG:YOUR PKG

TRK# 3926 0299 3191 Form 0430

AM
INTL PRIORITY

REF:
DESC1:SAMPLES - Each
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 115.00 USD
CUSTOMS VALUE: 115.00 USD

SIGN: Aecom
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:35

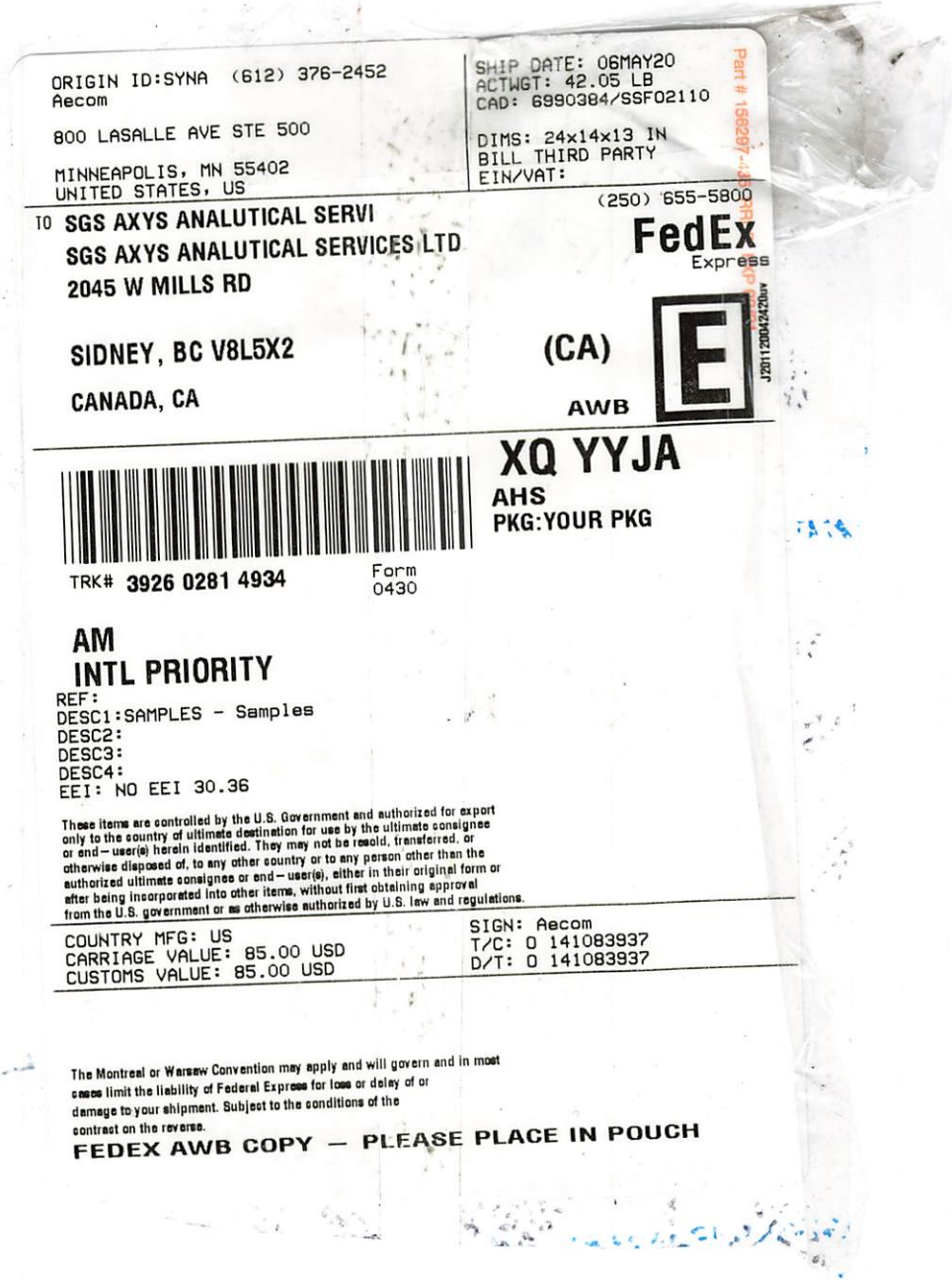
RECEIVED
MAY 07 2020
Jennifer Carlson

7.7°C
5713
bagged wet ice
melting

WB27448

4095

WB27449



ORIGIN ID:SYNA (612) 376-2452
Aecom

800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 42.05 LB
CAD: 6990384/SSF02110

DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RRP 4/20 KP

(250) 655-5800

TO SGS AXYS ANALUTICAL SERVI
SGS AXYS ANALUTICAL SERVICES LTD
2045 W MILLS RD

SIDNEY, BC V8L5X2

CANADA, CA

FedEx
Express

(CA)

AWB

E

J201120042420uv

XQ YYJA
AHS
PKG:YOUR PKG

TRK# 3926 0281 4934

Form
0430

AM
INTL PRIORITY

REF:
DESC1:SAMPLES - Samples
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 85.00 USD
CUSTOMS VALUE: 85.00 USD

SIGN: Aecom
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

FEDEX AWB COPY — PLEASE PLACE IN POUCH

8:25
6.4°C
5745
~~TP~~ Bags wet
ice, melted

RECEIVED
08
MAY ~~07~~ 2020
AG 08MAY2020
Jennifer Carlson

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602613575
Date /Time Received: 07-MAY-20 10:35
Receipt No: WB27446

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE

Signature:

Axys Sample ID's: L33050-19 to -29, -47 L33047-1, -4 to -6

Matrix Type: S/AQ

Thermometer ID: 5728

Condition of Shipping Container: intact

Corrected Temperature: 5.2 Celcius

Temperature upon Receipt: 5.4 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602993191
Date /Time Received: 07-MAY-20 10:35
Receipt No: WB27448

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENSDIVE Signature:

Axys Sample ID's: L33050-1 to -18, -46 L33049-1 to -3 L33047-2

Matrix Type: S

Thermometer ID: 5713

Condition of Shipping Container: Intact

Corrected Temperature: 7.6 Celcius

Temperature upon Receipt: 7.7 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602814934
Date /Time Received: 08-MAY-20 08:25
Receipt No: WB27449

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: DGRENDIVE Signature:

Axys Sample ID's: L33050-30 to -45 L33047-3

Matrix Type: S/AQ

Thermometer ID: 5745

Condition of Shipping Container: intact

Corrected Temperature: 6.2 Celcius

Temperature upon Receipt: 6.4 Celcius bagged wet ice, melted

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Checked 14-May-20 DPR*

*May. 14, 2020*

*04:12 PM*

**Login Number:** L33047

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33047-1** | | | 07-MAY-20 | | |
| | | Storage: WIF-4,bin oin shpping rack | | | |
| 392602613575 | | FIELDQC | | | |
| 06-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33047-2** | | | 07-MAY-20 | | |
| | | Storage: WIF-4,bin oin shpping rack | | | |
| 392602993191 | | FIELDQC | | | |
| 06-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33047-3** | | | 08-MAY-20 | | |
| | | Storage: WIF-4,bin oin shpping rack | | | |
| 392602814934 | | FIELDQC | | | |
| 06-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33047-4** | | | 07-MAY-20 | | |
| | | Storage: WIF-4,bin oin shpping rack | | | |
| RC21-WAT-BULK-01-042320 | | S016-280 | | | |
| 23-APR-20 14:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*04:12 PM*

**Login Number:** L33047

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33047-5** | | 07-MAY-20 | | |
| | Storage: WIF-4,bin oin shpping rack | | | |
| EP21-WAT-BULK-01-042320 | 82-0106-00-303 | | | |
| 23-APR-20 13:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L33047-6** | | 07-MAY-20 | | |
| | Storage: WIF-4,bin oin shpping rack | | | |
| EP21-WAT-BULK-01-042420 | 82-0106-00-303 | | | |
| 24-APR-20 14:25 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

4095

WB27449

L33050 -~~30~~ -29 to -45

43 - VB3-SED-comp 01 - 042720
44 - VB3-SED-comp 02 - 042720
45 - VB3-SED-comp 03- 04272

Processed by:
~~RAG~~/JTC
12-MAY-2020

WB27446

L33050 -19 to -29
-47

WB27448

L33050-1 to -18
-46

-18: RC-3-SED-WET-12-18-01-042520

L33049-1 to -3

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392602613575**
**Sample Collection:**
**06-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33047-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:20:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.799 (L) | |
| **PFHpA** | U | | 0.799 (L) | |
| **PFOA** | U | | 0.799 (L) | |
| **PFNA** | U | | 0.799 (L) | |
| **PFDA** | U | | 0.799 (L) | |
| **PFUnA** | U | | 0.799 (L) | |
| **PFDoA** | U | | 0.799 (L) | |
| **PFTrDA** | U | | 0.799 (L) | |
| **PFTeDA** | U | | 0.799 (L) | |
| **PFBS** | U | | 0.799 (L) | |
| **PFPeS** | U | | 0.799 (L) | |
| **PFHxS** | U | | 0.799 (L) | |
| **PFHpS** | U | | 0.799 (L) | |
| **PFOS** | U | | 0.799 (L) | |
| **PFNS** | U | | 0.799 (L) | |
| **PFDS** | U | | 0.799 (L) | |
| **PFDoS** | U | | 0.799 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.799 (L) | |
| **N-MeFOSA** | U | | 0.919 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.799 (L) | |
| **EtFOSAA** | U | | 0.799 (L) | |
| **N-MeFOSE** | U | | 7.99 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-1_Form1A_FC0L_160S43_SJ2747594.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392602613575**
**Sample Collection:**
**06-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:20:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.6 | 89.0 | 1:53 |
| **13C5-PFPeA** | | 20.0 | 19.9 | 99.4 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.71 | 97.1 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 9.88 | 98.8 | 5:23 |
| **13C8-PFOA** | | 10.0 | 9.23 | 92.3 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.29 | 85.8 | 6:59 |
| **13C6-PFDA** | | 5.00 | 4.72 | 94.4 | 7:29 |
| **13C7-PFUnA** | | 5.00 | 4.74 | 94.8 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.17 | 83.5 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 3.80 | 76.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.33 | 93.3 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 8.78 | 87.8 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.81 | 98.1 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 15.5 | 77.6 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.7 | 78.4 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 16.9 | 84.5 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 8.83 | 88.3 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 5.67 | 56.7 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.65 | 56.5 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 15.0 | 74.9 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 13.9 | 69.5 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 75.4 | 75.4 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 73.6 | 73.6 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.5 | 96.2 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-1_Form2_FC0L_160S43_SJ2747594.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392602993191**
**Sample Collection:**
**06-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33047-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:33:36 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-2_Form1A_FC0L_160S44_SJ2747595.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392602993191**
**Sample Collection:**
**06-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:33:36 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.6 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.0 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.87 | 98.7 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.81 | 98.1 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.96 | 89.6 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.35 | 86.9 | 6:59 |
| **13C6-PFDA** | | 5.00 | 4.63 | 92.6 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 4.41 | 88.1 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.20 | 83.9 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 3.58 | 71.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.50 | 95.0 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 8.87 | 88.7 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.96 | 99.6 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 16.4 | 82.0 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.7 | 78.4 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 17.7 | 88.4 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 8.69 | 86.9 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.61 | 66.1 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.74 | 67.4 | 10:24 |
| **D3-MeFOSAA** | | 20.0 | 14.7 | 73.6 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 13.4 | 67.0 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 77.6 | 77.6 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 74.9 | 74.9 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.6 | 96.6 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-2_Form2_FC0L_160S44_SJ2747595.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392602814934**
**Sample Collection:**
**06-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33047-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:46:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-3_Form1A_FC0L_160S45_SJ2747596.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392602814934**
**Sample Collection:**
**06-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:46:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.4 | 91.0 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 99.1 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.2 | 102 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 9.93 | 99.3 | 5:23 |
| **13C8-PFOA** | | 10.0 | 9.25 | 92.5 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.49 | 89.8 | 6:59 |
| **13C6-PFDA** | | 5.00 | 5.22 | 104 | 7:29 |
| **13C7-PFUnA** | | 5.00 | 5.00 | 100 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.12 | 82.4 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 3.99 | 79.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.60 | 96.0 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 9.74 | 97.4 | 6:15 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 17.1 | 85.6 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.4 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 18.7 | 93.4 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 9.45 | 94.5 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.10 | 71.0 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.25 | 72.5 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 15.4 | 77.2 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 14.4 | 72.2 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 85.7 | 85.7 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 82.5 | 82.5 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 40.7 | 102 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-3_Form2_FC0L_160S45_SJ2747596.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-042320**
**Sample Collection:**
**23-Apr-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33047-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.532 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:59:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 73.7 | 3.01 (L) | 1:54 |
| **PFPeA** | | 5.37 | 1.50 (L) | 4:21 |
| **PFHxA** | J | 4.00 | 0.752 (L) | 4:55 |
| **PFHpA** | J | 1.81 | 0.752 (L) | 5:23 |
| **PFOA** | | 6.72 | 0.752 (L) | |
| **PFNA** | U | | 0.752 (L) | |
| **PFDA** | U | | 0.752 (L) | |
| **PFUnA** | U | | 0.752 (L) | |
| **PFDoA** | U | | 0.752 (L) | |
| **PFTrDA** | U | | 0.752 (L) | |
| **PFTeDA** | U | | 0.752 (L) | |
| **PFBS** | | 2.26 | 0.752 (L) | 4:53 |
| **PFPeS** | U | | 0.752 (L) | |
| **PFHxS** | | 2.81 | 0.752 (L) | |
| **PFHpS** | U | | 0.752 (L) | |
| **PFOS** | | 2.10 | 0.752 (L) | |
| **PFNS** | U | | 0.752 (L) | |
| **PFDS** | U | | 0.752 (L) | |
| **PFDoS** | U | | 0.752 (L) | |
| **4:2 FTS** | U | | 3.01 (L) | |
| **6:2 FTS** | U | | 2.71 (L) | |
| **8:2 FTS** | U | | 3.01 (L) | |
| **PFOSA** | U | | 0.752 (L) | |
| **N-MeFOSA** | U | | 0.864 (L) | |
| **N-EtFOSA** | U | | 1.88 (L) | |
| **MeFOSAA** | U | | 0.752 (L) | |
| **EtFOSAA** | U | | 0.752 (L) | |
| **N-MeFOSE** | U | | 7.52 (L) | |
| **N-EtFOSE** | U | | 5.64 (L) | |
| **HFPO-DA** | U | | 2.86 (L) | |
| **ADONA** | U | | 3.01 (L) | |
| **9Cl-PF3ONS** | U | | 3.01 (L) | |
| **11Cl-PF3OUdS** | U | | 3.01 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-4_Form1A_FC0L_160S46_SJ2747597.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-042320**
**Sample Collection:**
**23-Apr-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.532 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:59:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 17.9 | 44.6 | 1:53 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.6 | 4:20 |
| **13C5-PFHxA** | | 10.0 | 9.44 | 94.4 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 9.93 | 99.3 | 5:23 |
| **13C8-PFOA** | | 10.0 | 9.00 | 90.0 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.1 | 6:59 |
| **13C6-PFDA** | | 5.00 | 4.69 | 93.9 | 7:29 |
| **13C7-PFUnA** | | 5.00 | 4.68 | 93.5 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.51 | 90.3 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 3.45 | 69.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.73 | 97.3 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 9.02 | 90.2 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.53 | 95.3 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 15.6 | 78.2 | 4:48 |
| **13C2-6:2 FTS** | | 20.0 | 14.0 | 70.1 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 16.4 | 82.2 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 9.43 | 94.3 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.76 | 87.6 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 8.05 | 80.5 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 14.7 | 73.7 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 13.5 | 67.4 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 87.9 | 87.9 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 86.3 | 86.3 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 35.5 | 88.9 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-4_Form2_FC0L_160S46_SJ2747597.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-BULK-01-042320**
**Sample Collection:**
**23-Apr-2020 13:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.422 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 12:12:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 772 | 3.79 (L) | 1:54 |
| **PFPeA** | | 15.8 | 1.89 (L) | 4:21 |
| **PFHxA** | | 15.5 | 0.947 (L) | 4:56 |
| **PFHpA** | | 5.70 | 0.947 (L) | 5:23 |
| **PFOA** | | 65.8 | 1.10 (S) | |
| **PFNA** | J | 1.07 | 0.947 (L) | |
| **PFDA** | | 2.04 | 0.947 (L) | 7:30 |
| **PFUnA** | U | | 0.947 (L) | |
| **PFDoA** | U | | 0.947 (L) | |
| **PFTrDA** | U | | 0.947 (L) | |
| **PFTeDA** | U | | 0.947 (L) | |
| **PFBS** | | 3.00 | 0.947 (L) | 4:53 |
| **PFPeS** | | 2.06 | 0.947 (L) | 5:25 |
| **PFHxS** | | 6.33 | 0.947 (L) | |
| **PFHpS** | J | 1.02 | 0.947 (L) | 7:06 |
| **PFOS** | | 183 | 0.947 (L) | |
| **PFNS** | U | | 0.947 (L) | |
| **PFDS** | U | | 0.947 (L) | |
| **PFDoS** | U | | 0.947 (L) | |
| **4:2 FTS** | U | | 3.79 (L) | |
| **6:2 FTS** | U | | 3.41 (L) | |
| **8:2 FTS** | U | | 3.79 (L) | |
| **PFOSA** | U | | 0.947 (L) | |
| **N-MeFOSA** | U | | 1.09 (L) | |
| **N-EtFOSA** | U | | 2.37 (L) | |
| **MeFOSAA** | U | | 0.947 (L) | |
| **EtFOSAA** | U | | 0.947 (L) | |
| **N-MeFOSE** | U | | 9.47 (L) | |
| **N-EtFOSE** | U | | 7.11 (L) | |
| **HFPO-DA** | U | | 3.60 (L) | |
| **ADONA** | U | | 3.79 (L) | |
| **9Cl-PF3ONS** | U | | 3.79 (L) | |
| **11Cl-PF3OUdS** | U | | 3.79 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-5_Form1A_FC0L_160S47_SJ2747598.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-BULK-01-042320**
**Sample Collection:**
**23-Apr-2020 13:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.422 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 12:12:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 25.8 | 64.4 | 1:53 |
| **13C5-PFPeA** | | 20.0 | 19.9 | 99.6 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.63 | 96.3 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 9.03 | 90.3 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.83 | 88.3 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.22 | 84.5 | 6:59 |
| **13C6-PFDA** | | 5.00 | 4.12 | 82.5 | 7:29 |
| **13C7-PFUnA** | | 5.00 | 4.61 | 92.1 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.06 | 81.2 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 3.53 | 70.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.61 | 96.1 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 9.25 | 92.5 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.55 | 95.5 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 14.2 | 71.2 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 14.7 | 73.5 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 16.2 | 80.9 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 9.71 | 97.1 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.72 | 77.2 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.48 | 74.8 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 14.2 | 71.1 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 14.2 | 71.2 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 88.8 | 88.8 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 83.6 | 83.6 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 35.9 | 89.8 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-5_Form2_FC0L_160S47_SJ2747598.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-BULK-01-042420**
**Sample Collection:**
**24-Apr-2020 14:25**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.556 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 12:25:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 806 | 2.88 (L) | 1:54 |
| **PFPeA** | | 16.2 | 1.44 (L) | 4:21 |
| **PFHxA** | | 16.0 | 0.719 (L) | 4:56 |
| **PFHpA** | | 6.08 | 0.719 (L) | 5:23 |
| **PFOA** | | 62.1 | 0.964 (S) | |
| **PFNA** | U | | 0.719 (L) | |
| **PFDA** | U | | 0.719 (L) | |
| **PFUnA** | U | | 0.719 (L) | |
| **PFDoA** | U | | 0.719 (L) | |
| **PFTrDA** | U | | 0.719 (L) | |
| **PFTeDA** | U | | 0.719 (L) | |
| **PFBS** | | 3.06 | 0.719 (L) | 4:53 |
| **PFPeS** | | 2.08 | 0.719 (L) | 5:25 |
| **PFHxS** | | 6.46 | 0.719 (L) | |
| **PFHpS** | J | 0.889 | 0.719 (L) | 7:06 |
| **PFOS** | | 68.8 | 0.719 (L) | |
| **PFNS** | U | | 0.719 (L) | |
| **PFDS** | U | | 0.719 (L) | |
| **PFDoS** | U | | 0.719 (L) | |
| **4:2 FTS** | U | | 2.88 (L) | |
| **6:2 FTS** | U | | 2.59 (L) | |
| **8:2 FTS** | U | | 2.88 (L) | |
| **PFOSA** | U | | 0.719 (L) | |
| **N-MeFOSA** | U | | 0.827 (L) | |
| **N-EtFOSA** | U | | 1.80 (L) | |
| **MeFOSAA** | U | | 0.719 (L) | |
| **EtFOSAA** | U | | 0.719 (L) | |
| **N-MeFOSE** | U | | 7.19 (L) | |
| **N-EtFOSE** | U | | 5.39 (L) | |
| **HFPO-DA** | U | | 2.73 (L) | |
| **ADONA** | U | | 2.88 (L) | |
| **9Cl-PF3ONS** | U | | 2.88 (L) | |
| **11Cl-PF3OUdS** | U | | 2.88 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-6_Form1A_FC0L_160S48_SJ2747599.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-BULK-01-042420**
**Sample Collection:**
**24-Apr-2020 14:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33047-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.556 L |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 12:25:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 27.7 | 69.3 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 99.9 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.46 | 94.6 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 8.69 | 86.9 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.53 | 85.3 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.24 | 84.7 | 6:59 |
| **13C6-PFDA** | | 5.00 | 4.29 | 85.9 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 4.13 | 82.6 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 3.62 | 72.4 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 2.63 | 52.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.31 | 93.1 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 9.07 | 90.7 | 6:15 |
| **13C8-PFOS** | | 10.0 | 8.95 | 89.5 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 14.6 | 72.9 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 14.7 | 73.5 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 15.3 | 76.4 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 8.79 | 87.9 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.83 | 68.3 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.43 | 64.3 | 10:24 |
| **D3-MeFOSAA** | | 20.0 | 12.7 | 63.3 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 12.1 | 60.6 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 74.5 | 74.5 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 69.3 | 69.3 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.3 | 90.7 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_L33047-6_Form2_FC0L_160S48_SJ2747599.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG72411-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:07:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_WG72411-101_Form1A_FC0L_160S42_SJ2747592.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72411-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 11:07:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_160 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.8 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 100 | 4:20 |
| **13C5-PFHxA** | | 10.0 | 9.81 | 98.1 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 9.51 | 95.1 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.86 | 88.6 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.37 | 87.5 | 6:59 |
| **13C6-PFDA** | | 5.00 | 5.06 | 101 | 7:29 |
| **13C7-PFUnA** | | 5.00 | 5.01 | 100 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.58 | 91.7 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 4.05 | 81.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.23 | 92.3 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 9.42 | 94.2 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.78 | 97.8 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 16.1 | 80.3 | 4:48 |
| **13C2-6:2 FTS** | | 20.0 | 15.8 | 79.0 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 18.1 | 90.3 | 7:19 |
| **13C8-PFOSA** | | 10.0 | 8.73 | 87.3 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.77 | 67.7 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.93 | 69.3 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 13.9 | 69.6 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 14.1 | 70.5 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 84.1 | 84.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 79.8 | 79.8 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 37.7 | 94.4 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_WG72411-101_Form2_FC0L_160S42_SJ2747592.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72411-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 10:28:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_160 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.4 | 98.4 | 1:54 |
| **PFPeA** | | 20.0 | 20.0 | 99.8 | 4:21 |
| **PFHxA** | | 10.0 | 9.25 | 92.5 | 4:55 |
| **PFHpA** | | 10.0 | 10.0 | 100 | 5:23 |
| **PFOA** | | 10.0 | 9.40 | 94.0 | |
| **PFNA** | | 10.0 | 9.70 | 97.0 | |
| **PFDA** | | 10.0 | 8.92 | 89.2 | 7:29 |
| **PFUnA** | | 10.0 | 9.28 | 92.8 | 7:49 |
| **PFDoA** | | 10.0 | 9.11 | 91.1 | 8:05 |
| **PFTrDA** | | 10.0 | 8.78 | 87.8 | 8:25 |
| **PFTeDA** | | 10.0 | 9.76 | 97.6 | 8:50 |
| **PFBS** | | 10.0 | 9.36 | 93.6 | 4:53 |
| **PFPeS** | | 10.0 | 10.5 | 105 | 5:25 |
| **PFHxS** | | 10.0 | 9.57 | 95.7 | |
| **PFHpS** | | 10.0 | 9.41 | 94.1 | 7:06 |
| **PFOS** | | 10.0 | 8.56 | 85.6 | |
| **PFNS** | | 10.0 | 10.0 | 100 | 7:54 |
| **PFDS** | | 10.0 | 9.14 | 91.4 | 8:12 |
| **PFDoS** | | 10.0 | 8.68 | 86.8 | 9:00 |
| **4:2 FTS** | | 40.0 | 42.9 | 107 | 4:48 |
| **6:2 FTS** | | 36.1 | 33.9 | 93.9 | 5:50 |
| **8:2 FTS** | | 40.0 | 37.4 | 93.4 | 7:19 |
| **PFOSA** | | 10.0 | 10.1 | 101 | |
| **N-MeFOSA** | | 11.5 | 11.5 | 99.8 | |
| **N-EtFOSA** | | 25.0 | 21.8 | 87.2 | |
| **MeFOSAA** | | 10.0 | 9.71 | 97.1 | |
| **EtFOSAA** | | 10.0 | 10.4 | 104 | |
| **N-MeFOSE** | | 100 | 102 | 102 | |
| **N-EtFOSE** | | 75.0 | 77.2 | 103 | |
| **HFPO-DA** | | 38.0 | 38.4 | 101 | 5:04 |
| **ADONA** | | 40.0 | 40.5 | 101 | 5:37 |
| **9Cl-PF3ONS** | | 40.0 | 42.7 | 107 | 7:49 |
| **11Cl-PF3OUdS** | | 40.0 | 39.6 | 98.9 | 8:26 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72411-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 10:28:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_160 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.2 | 1:53 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.4 | 4:20 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 9.91 | 99.1 | 5:23 |
| **13C8-PFOA** | | 10.0 | 9.26 | 92.6 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.47 | 89.3 | 6:59 |
| **13C6-PFDA** | | 5.00 | 4.49 | 89.9 | 7:29 |
| **13C7-PFUnA** | | 5.00 | 4.39 | 87.7 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.37 | 87.4 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 3.99 | 79.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.5 | 105 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 9.15 | 91.5 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.66 | 96.6 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 15.5 | 77.3 | 4:48 |
| **13C2-6:2 FTS** | | 20.0 | 15.5 | 77.7 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 17.4 | 87.0 | 7:19 |
| **13C8-PFOSA** | | 10.0 | 8.78 | 87.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.20 | 72.0 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.36 | 73.6 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 14.3 | 71.3 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 12.7 | 63.6 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 83.0 | 83.0 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 80.7 | 80.7 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.9 | 92.2 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_WG72411-102_Form8B_SJ2747583.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72411-103 (DUP WG72411-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 10:41:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_160 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.6 | 99.0 | 1:54 |
| **PFPeA** | | 20.0 | 19.4 | 97.1 | 4:21 |
| **PFHxA** | | 10.0 | 9.51 | 95.1 | 4:56 |
| **PFHpA** | | 10.0 | 9.76 | 97.6 | 5:23 |
| **PFOA** | | 10.0 | 9.39 | 93.9 | |
| **PFNA** | | 10.0 | 9.95 | 99.5 | |
| **PFDA** | | 10.0 | 9.78 | 97.8 | 7:29 |
| **PFUnA** | | 10.0 | 9.90 | 99.0 | 7:49 |
| **PFDoA** | N | 10.0 | 7.78 | 77.8 | 8:05 |
| **PFTrDA** | | 10.0 | 9.14 | 91.4 | 8:25 |
| **PFTeDA** | | 10.0 | 10.1 | 101 | 8:50 |
| **PFBS** | | 10.0 | 9.78 | 97.8 | 4:53 |
| **PFPeS** | | 10.0 | 9.87 | 98.7 | 5:25 |
| **PFHxS** | | 10.0 | 9.55 | 95.5 | |
| **PFHpS** | | 10.0 | 9.39 | 93.9 | 7:06 |
| **PFOS** | | 10.0 | 8.78 | 87.8 | |
| **PFNS** | | 10.0 | 10.2 | 102 | 7:54 |
| **PFDS** | | 10.0 | 9.48 | 94.8 | 8:12 |
| **PFDoS** | | 10.0 | 8.65 | 86.5 | 9:00 |
| **4:2 FTS** | | 40.0 | 44.3 | 111 | 4:49 |
| **6:2 FTS** | | 36.1 | 35.8 | 99.3 | 5:50 |
| **8:2 FTS** | | 40.0 | 41.0 | 102 | 7:20 |
| **PFOSA** | | 10.0 | 9.87 | 98.7 | |
| **N-MeFOSA** | | 11.5 | 11.7 | 102 | |
| **N-EtFOSA** | | 25.0 | 24.0 | 96.1 | |
| **MeFOSAA** | | 10.0 | 10.1 | 101 | |
| **EtFOSAA** | | 10.0 | 9.04 | 90.4 | |
| **N-MeFOSE** | | 100 | 103 | 103 | |
| **N-EtFOSE** | | 75.0 | 76.8 | 102 | |
| **HFPO-DA** | | 38.0 | 37.4 | 98.5 | 5:04 |
| **ADONA** | | 40.0 | 37.4 | 93.4 | 5:37 |
| **9Cl-PF3ONS** | | 40.0 | 40.5 | 101 | 7:49 |
| **11Cl-PF3OUdS** | | 40.0 | 37.5 | 93.8 | 8:27 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFC_FC_LC_PFAS_WG72411-103_Form8A_SJ2747587.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72411-103 (DUP WG72411-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 22-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-May-2020 **Time:** 10:41:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_160 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_160 S: 42 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_160 S: 35 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.0 | 87.5 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.7 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.58 | 95.8 | 4:55 |
| **13C4-PFHpA** | | 10.0 | 9.14 | 91.4 | 5:23 |
| **13C8-PFOA** | | 10.0 | 8.51 | 85.1 | 6:09 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.3 | 6:59 |
| **13C6-PFDA** | | 5.00 | 4.77 | 95.5 | 7:29 |
| **13C7-PFUnA** | | 5.00 | 4.80 | 96.0 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 4.80 | 95.9 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 4.12 | 82.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.42 | 94.2 | 4:53 |
| **13C3-PFHxS** | | 10.0 | 9.13 | 91.3 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.70 | 97.0 | 7:35 |
| **13C2-4:2 FTS** | | 20.0 | 14.0 | 70.0 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 13.6 | 68.0 | 5:50 |
| **13C2-8:2 FTS** | | 20.0 | 15.7 | 78.6 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 9.00 | 90.0 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.04 | 70.4 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.83 | 68.3 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 13.7 | 68.4 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 14.5 | 72.3 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 82.4 | 82.4 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 79.5 | 79.5 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.1 | 95.1 | 5:04 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: PFC_FC_LC_PFAS_WG72411-103_Form8B_SJ2747587.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72411-102 (A) LAB FLAG [1] | WG72411-102 (A) CONC. FOUND | WG72411-103 LAB FLAG [1] | WG72411-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 39.4 | | 39.6 | 39.5 | 0.554 |
| **PFPeA** | | 20.0 | | 19.4 | 19.7 | 2.73 |
| **PFHxA** | | 9.25 | | 9.51 | 9.38 | 2.69 |
| **PFHpA** | | 10.0 | | 9.76 | 9.90 | 2.86 |
| **PFOA** | | 9.40 | | 9.39 | 9.40 | 0.082 |
| **PFNA** | | 9.70 | | 9.95 | 9.83 | 2.58 |
| **PFDA** | | 8.92 | | 9.78 | 9.35 | 9.23 |
| **PFUnA** | | 9.28 | | 9.90 | 9.59 | 6.46 |
| **PFDoA** | | 9.11 | N | 7.78 | 8.44 | 15.7 |
| **PFTrDA** | | 8.78 | | 9.14 | 8.96 | 4.02 |
| **PFTeDA** | | 9.76 | | 10.1 | 9.92 | 3.30 |
| **PFBS** | | 9.36 | | 9.78 | 9.57 | 4.33 |
| **PFPeS** | | 10.5 | | 9.87 | 10.2 | 5.86 |
| **PFHxS** | | 9.57 | | 9.55 | 9.56 | 0.228 |
| **PFHpS** | | 9.41 | | 9.39 | 9.40 | 0.203 |
| **PFOS** | | 8.56 | | 8.78 | 8.67 | 2.52 |
| **PFNS** | | 10.0 | | 10.2 | 10.1 | 1.46 |
| **PFDS** | | 9.14 | | 9.48 | 9.31 | 3.55 |
| **PFDoS** | | 8.68 | | 8.65 | 8.66 | 0.353 |
| **4:2 FTS** | | 42.9 | | 44.3 | 43.6 | 3.24 |
| **6:2 FTS** | | 33.9 | | 35.8 | 34.8 | 5.56 |
| **8:2 FTS** | | 37.4 | | 41.0 | 39.2 | 9.17 |
| **PFOSA** | | 10.1 | | 9.87 | 9.99 | 2.23 |
| **N-MeFOSA** | | 11.5 | | 11.7 | 11.6 | 2.17 |
| **N-EtFOSA** | | 21.8 | | 24.0 | 22.9 | 9.73 |
| **MeFOSAA** | | 9.71 | | 10.1 | 9.93 | 4.36 |
| **EtFOSAA** | | 10.4 | | 9.04 | 9.70 | 13.6 |
| **N-MeFOSE** | | 102 | | 103 | 102 | 1.38 |
| **N-EtFOSE** | | 77.2 | | 76.8 | 77.0 | 0.576 |
| **HFPO-DA** | | 38.4 | | 37.4 | 37.9 | 2.63 |
| **ADONA** | | 40.5 | | 37.4 | 38.9 | 8.13 |
| **9Cl-PF3ONS** | | 42.7 | | 40.5 | 41.6 | 5.13 |
| **11Cl-PF3OUdS** | | 39.6 | | 37.5 | 38.6 | 5.26 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: RPD_FC_LC_PFAS-RPD_WG72411-103_WG72411-102_.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87603.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87603.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_160 S: 35 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 09:36:22 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:54 | 40.0 | 39.9 | 99.8 |
| **PFPeA** | | 4:21 | 20.0 | 19.9 | 99.5 |
| **PFHxA** | | 4:55 | 10.0 | 9.91 | 99.1 |
| **PFHpA** | | 5:23 | 10.0 | 9.82 | 98.2 |
| **PFOA** | | 6:09 | 10.0 | 9.24 | 92.4 |
| **PFNA** | | 6:59 | 10.0 | 10.3 | 103 |
| **PFDA** | | 7:29 | 10.0 | 10.0 | 100 |
| **PFUnA** | | 7:49 | 10.0 | 10.5 | 105 |
| **PFDoA** | | 8:05 | 10.0 | 10.5 | 105 |
| **PFTrDA** | | 8:25 | 10.0 | 9.88 | 98.8 |
| **PFTeDA** | | 8:50 | 10.0 | 10.4 | 104 |
| **PFBS** | | 4:53 | 10.0 | 9.82 | 98.2 |
| **PFPeS** | | 5:25 | 10.0 | 9.94 | 99.4 |
| **PFHxS** | | 6:15 | 10.0 | 10.0 | 100 |
| **PFHpS** | | 7:06 | 10.0 | 9.48 | 94.8 |
| **PFOS** | | 7:35 | 10.0 | 8.81 | 88.1 |
| **PFNS** | | 7:54 | 10.0 | 10.6 | 106 |
| **PFDS** | | 8:12 | 10.0 | 9.60 | 96.0 |
| **PFDoS** | | 9:00 | 10.0 | 9.57 | 95.7 |
| **4:2 FTS** | | 4:49 | 40.0 | 44.2 | 111 |
| **6:2 FTS** | | 5:50 | 36.0 | 34.6 | 96.0 |
| **8:2 FTS** | | 7:20 | 40.0 | 40.7 | 102 |
| **PFOSA** | | 8:42 | 10.0 | 10.4 | 104 |
| **N-MeFOSA** | | 10:06 | 11.5 | 11.9 | 104 |
| **N-EtFOSA** | | 10:24 | 25.0 | 24.2 | 96.7 |
| **MeFOSAA** | | 7:33 | 10.0 | 11.0 | 110 |
| **EtFOSAA** | | 7:41 | 10.0 | 9.72 | 97.2 |
| **N-MeFOSE** | | 9:59 | 100 | 103 | 103 |
| **N-EtFOSE** | | 10:17 | 75.0 | 76.2 | 102 |
| **HFPO-DA** | | 5:04 | 40.0 | 39.7 | 99.3 |
| **ADONA** | | 5:37 | 40.0 | 39.2 | 97.9 |
| **9Cl-PF3ONS** | | 7:49 | 40.0 | 42.5 | 106 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 41.8 | 104 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5; Report Filename: PFOA_FC_LC_FC0L_160S35__Form4A_SJ2747577.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_160 S: 35 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 09:36:22 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:54 | 40.0 | 39.0 | 97.4 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.2 | 106 |
| **13C5-PFHxA** | | 4:55 | 10.0 | 9.98 | 99.8 |
| **13C4-PFHpA** | | 5:23 | 10.0 | 10.2 | 102 |
| **13C8-PFOA** | | 6:09 | 10.0 | 9.80 | 98.0 |
| **13C9-PFNA** | | 6:59 | 5.00 | 4.73 | 94.6 |
| **13C6-PFDA** | | 7:29 | 5.00 | 4.73 | 94.6 |
| **13C7-PFUnA** | | 7:49 | 5.00 | 4.62 | 92.5 |
| **13C2-PFDoA** | | 8:05 | 5.00 | 4.87 | 97.4 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.33 | 86.6 |
| **13C3-PFBS** | | 4:53 | 9.18 | 9.57 | 104 |
| **13C3-PFHxS** | | 6:15 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:35 | 10.0 | 10.1 | 101 |
| **13C2-4:2 FTS** | | 4:49 | 20.0 | 15.5 | 77.6 |
| **13C2-6:2 FTS** | | 5:50 | 20.0 | 15.1 | 75.7 |
| **13C2-8:2 FTS** | | 7:19 | 20.0 | 16.3 | 81.7 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 10.1 | 101 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 10.4 | 104 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 9.79 | 97.9 |
| **D3-MeFOSAA** | | 7:33 | 20.0 | 14.1 | 70.4 |
| **D5-EtFOSAA** | | 7:41 | 20.0 | 13.9 | 69.4 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 98.3 | 98.3 |
| **d9-NEt-FOSE** | | 10:16 | 100 | 95.5 | 95.5 |
| **13C3-HFPO-DA** | | 5:04 | 40.0 | 40.5 | 101 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5; Report Filename: PFOA_FC_LC_FC0L_160S35__Form4B_SJ2747577.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_160 S: 57 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 14:22:54 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:55 | 40.0 | 39.4 | 98.6 |
| **PFPeA** | | 4:21 | 20.0 | 19.7 | 98.7 |
| **PFHxA** | | 4:56 | 10.0 | 9.22 | 92.2 |
| **PFHpA** | | 5:24 | 10.0 | 9.89 | 98.9 |
| **PFOA** | | 6:09 | 10.0 | 9.00 | 90.0 |
| **PFNA** | | 7:00 | 10.0 | 10.1 | 101 |
| **PFDA** | | 7:30 | 10.0 | 9.43 | 94.3 |
| **PFUnA** | | 7:49 | 10.0 | 9.26 | 92.6 |
| **PFDoA** | | 8:05 | 10.0 | 9.00 | 90.0 |
| **PFTrDA** | | 8:25 | 10.0 | 9.54 | 95.4 |
| **PFTeDA** | | 8:50 | 10.0 | 10.4 | 104 |
| **PFBS** | | 4:53 | 10.0 | 9.43 | 94.3 |
| **PFPeS** | | 5:26 | 10.0 | 10.9 | 109 |
| **PFHxS** | | 6:16 | 10.0 | 10.3 | 103 |
| **PFHpS** | | 7:06 | 10.0 | 9.62 | 96.2 |
| **PFOS** | | 7:36 | 10.0 | 9.37 | 93.7 |
| **PFNS** | | 7:55 | 10.0 | 10.2 | 102 |
| **PFDS** | | 8:12 | 10.0 | 9.33 | 93.3 |
| **PFDoS** | | 9:01 | 10.0 | 9.68 | 96.8 |
| **4:2 FTS** | | 4:49 | 40.0 | 44.8 | 112 |
| **6:2 FTS** | | 5:50 | 36.0 | 35.4 | 98.4 |
| **8:2 FTS** | | 7:20 | 40.0 | 38.0 | 94.9 |
| **PFOSA** | | 8:42 | 10.0 | 9.84 | 98.4 |
| **N-MeFOSA** | | 10:07 | 11.5 | 12.1 | 105 |
| **N-EtFOSA** | | 10:24 | 25.0 | 22.6 | 90.3 |
| **MeFOSAA** | | 7:33 | 10.0 | 10.4 | 104 |
| **EtFOSAA** | | 7:41 | 10.0 | 9.75 | 97.5 |
| **N-MeFOSE** | | 9:59 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:17 | 75.0 | 76.3 | 102 |
| **HFPO-DA** | | 5:04 | 40.0 | 42.1 | 105 |
| **ADONA** | | 5:37 | 40.0 | 43.4 | 109 |
| **9Cl-PF3ONS** | | 7:49 | 40.0 | 44.6 | 112 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 42.8 | 107 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5; Report Filename: PFOA_FC_LC_FC0L_160S57__Form4A_SJ2747608.html; Workgroup: WG72411; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_160 S: 57 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 14:22:54 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:54 | 40.0 | 39.2 | 98.0 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.5 | 108 |
| **13C5-PFHxA** | | 4:56 | 10.0 | 11.0 | 110 |
| **13C4-PFHpA** | | 5:23 | 10.0 | 10.5 | 105 |
| **13C8-PFOA** | | 6:09 | 10.0 | 9.87 | 98.7 |
| **13C9-PFNA** | | 7:00 | 5.00 | 4.69 | 93.8 |
| **13C6-PFDA** | | 7:30 | 5.00 | 5.27 | 105 |
| **13C7-PFUnA** | | 7:49 | 5.00 | 4.93 | 98.6 |
| **13C2-PFDoA** | | 8:05 | 5.00 | 4.76 | 95.1 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.52 | 90.5 |
| **13C3-PFBS** | | 4:53 | 9.18 | 9.91 | 108 |
| **13C3-PFHxS** | | 6:15 | 10.0 | 9.75 | 97.5 |
| **13C8-PFOS** | | 7:35 | 10.0 | 10.6 | 106 |
| **13C2-4:2 FTS** | | 4:49 | 20.0 | 15.0 | 75.0 |
| **13C2-6:2 FTS** | | 5:50 | 20.0 | 15.0 | 75.1 |
| **13C2-8:2 FTS** | | 7:20 | 20.0 | 17.4 | 87.0 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 10.4 | 104 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 10.5 | 105 |
| **D5-N-EtFOSA** | | 10:24 | 10.0 | 10.4 | 104 |
| **D3-MeFOSAA** | | 7:33 | 20.0 | 16.6 | 82.9 |
| **D5-EtFOSAA** | | 7:41 | 20.0 | 15.2 | 75.9 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 98.5 | 98.5 |
| **d9-NEt-FOSE** | | 10:16 | 100 | 96.7 | 96.7 |
| **13C3-HFPO-DA** | | 5:04 | 40.0 | 39.3 | 98.2 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 27-May-2020 16:28:34; Application: XMLTransformer-1.18.5; Report Filename: PFOA_FC_LC_FC0L_160S57__Form4B_SJ2747608.html; Workgroup: WG72411; Design ID: 3769 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | Y | | | | | | Y | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | Y | | | | | | | Y | | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | | Y | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | | Y | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | Y | Y | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | Y | Y | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | Y | Y | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## SOLID SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG72820**

**Analysis WG72423 / WG72424**

## 6 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**SOLID SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**

**4095:** L33050-21 to -47

**Project name: P1007/60608807**
**Work order number: 3000025335**

**6 July 2020**

## NARRATIVE

This narrative describes the analysis of twenty-seven solid samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 7th and 8th of May 2020. Details of sample conditions upon receipt are provided on the Sample Receiving Record form included in the sample documentation section of this data package. The samples were stored at -20°C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were all analyzed in two analysis batches designated as WG72423 and WG72424; the composition of which is shown on the Correlation Table included with this data package. The QC samples consisted of a laboratory procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, a matrix spike (MS) and duplicate matrix spike sample (MSD). The laboratory procedural blank and OPR samples were both prepared using Canadian Springs water as the matrix. The MS and MSD samples in analysis batch WG72423 were both prepared using individual portions of the sample EP16-SED-0-6-03-042720 (SGS AXYS ID: L33050-32). The MS and MSD samples in analysis batch WG72424 were both prepared using individual portions of the sample VB3-SED-COMP-0-6-03-042720 (SGS AXYS ID: L33050-45).

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 5 grams of each sample was accurately weighed. After addition of isotopically labelled surrogate standards, the sample was extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants were combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution was diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate was spiked with recovery standards and analyzed by LCMS/MS.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

**REPORTING CONVENTIONS**

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L33050-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix and combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
i = instrumental re-analysis performed on the sample extract

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
N = target analyte recovery for the OPR or OPR DUP sample was not within the contract specific criteria limits
U = identifies a compound that was not detected
V = surrogate recovery is not within contract control limits
R = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration

For all target analytes, the results were reported with concentration units of nanograms per gram (ng/g) on a dry mass basis. Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The field and QC samples were analyzed in two analysis batches and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Target analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank and labeled compound recovery specifications were met with the following exceptions:

***WG72423***

Percent recovery of several labeled compounds in the Lab Blank, OPR and several client samples were outside the contract nominal limit and were flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.

An interference was observed affecting analyte EtFOSAA in sample EP19-SED-24-30-01-042520 (SGS AXYS ID: L33050-25) and has been flagged with 'R' on the report form. The reported concentration of this analyte should be interpreted as the 'estimated' maximum concentration.

***WG72424***

The analyte 6:2 FTS was detected in the Lab Blank (SGS AXYS ID: WG72424-101). Data are not blank corrected. Blank data should be taken into consideration when evaluating sample data.

Percent recovery of several labeled compounds in the Lab Blank, OPR, MS, MS duplicate, and several client samples were outside the contract nominal limit and were flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only. Where the percent recovery for a labeled compound fell below 10% and half of the method lower control limits but above 1% the native analyte with the labeled compound being its exact labeled analogue was reported in a 'concentration is estimated' capacity and flagged with an 'H'.

**ANALYTICAL DISCUSSION**

***WG72423***

No analytical difficulty was encountered.

***WG72424***

The initial instrumental analysis results of the samples listed below did not meet all method specifications. These sample extracts were instrumentally re-analyzed and method specifications were met. Sample concentrations are reported from these re-injections (indicated by suffix '**i**' on the SGS AXYS ID as appropriate).

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72820. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo — 06-Jul-2020

Bryan Alonzo, B. Sc., Data Validation Chemist — Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.



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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |


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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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### Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Solid Samples** |
| **Data Package Identification: DPWG72820** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72423-101 |
| OPR | WG72423-102 |
| MATRIX SPIKE | WG72423-103 |
| MATRIX SPIKE DUPLICATE | WG72423-104 |
| | |
| EP17-SED-WET-6-12-01-042520 | L33050-21 |
| EP17-SED-0-6-01-042520 | L33050-22 |
| EP19-SED-WET-0-6-01-042520 | L33050-23 |
| EP19-SED-WET-6-12-01-042520 | L33050-24 |
| EP19-SED-24-30-01-042520 | L33050-25 |
| EP19-SED-36-42-01-042520 | L33050-26 |
| RC16A-SED-WET-0-6-01-043020 | L33050-27 |
| RC16A-SED-WET-0-6-02-043020 | L33050-28 |
| RC16A-SED-WET-6-12-01-043020 | L33050-29 |
| EP16-SED-0-6-01-042720 | L33050-30 |
| EP16-SED-0-6-02-042720 | L33050-31 |
| EP16-SED-0-6-03-042720 | L33050-32 |
| EP16-SED-6-18-01-042720 | L33050-33 |
| EP16-SED-30-36-01-042720 | L33050-34 |
| EP20-SED-WET-0-6-01-042720 | L33050-35 |
| EP20-SED-WET-6-12-01-042720 | L33050-36 |
| EP20-SED-24-30-01-042720 | L33050-37 |
| EP20-SED-36-42-01-042720 | L33050-38 |
| EP23-SED-0-6-01-042720 | L33050-39 |
| EP24-SED-0-6-01-042720 | L33050-40 |
| | |
| | |
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# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Solid Samples** |
| **Data Package Identification: DPWG72820** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72424-101 |
| OPR | WG72424-102 |
| MATRIX SPIKE | WG72424-103 |
| MATRIX SPIKE DUPLICATE | WG72424-104 |
| | |
| BP1-SED-0-6-01-042720 | L33050-41 |
| VB1-SED-COMP-0-6-01-042720 | L33050-42 |
| VB3-SED-COMP-0-6-01-042720 | L33050-43 |
| VB3-SED-COMP-0-6-02-042720 | L33050-44 |
| VB3-SED-COMP-0-6-03-042720 | L33050-45 |
| EP21-SED-FOAM-0-6-01-042320 | L33050-46 |
| EP21-SED-BEACH-FOAM-01-050520 | L33050-47 |
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SGS AXYS

1 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave S, Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tacara
Phone: 612-376-2452
FAX:
E-mail: andrew.tacara@aecom.com

**INVOICE TO:**
Company:
Address: SAME
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: 59007/60618753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: MLA-110, TOPA

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 | TOPA | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC17-SED-BANK-EAST-0-3-01-042320 | S | 4/23/20 | 1110 | HDPE/1 | L33050-1 | X | | | | |
| RC17-SED-BANK-EAST-3-6-01-042320 | S | 4/23/20 | 1130 | ↓ | -2 | X | | | | |
| RC17-SED-BANK-WEST-0-3-01-042320 | S | 4/23/20 | 1200 | ↓ | -3 | X | | | | |
| RC17-SED-BANK-WEST-3-6-01-042320 | S | 4/23/20 | 1215 | ↓ | -4 | X | | | | |
| RC18-SED-COMP-0-3-01-042320 | S | 4/23/20 | 1400 | ↓ | -5 | X | | | | |
| RC21-SED-COMP-0-3-01-042320 | S | 4/23/20 | 0950 | ↓ | -6 | X | | | | |
| EP21-SED-FOAM-0-6-01-042320 | S | 4/23/20 | 1240 | ↓ | ~~-45~~ 46 (DPR 13-May-20) | X | | | | |
| FC1-SED-0-3-01-042320 | S | 4/23/20 | 1445 | ↓ | -7 | X | | | | |
| RC12-SED-COMP-0-6-01-042420 | S | 4/24/20 | 1350 | HDPE/2 | L33049-1 | X | X | | | |
| RC12-SED-12-18-01-042420 | S | 4/24/20 | 1400 | HDPE/1 | -8 | X | | | | |
| RC12-SED-30-36-01-042420 | S | 4/24/20 | 1430 | ↓ | -9 | X | | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlsen<br>Date 07 May 2020 Time 10:35 | | 8149 0205 4430 |
| Relinquished by (Signature) | Date | Time | Received by (Signature)<br>Date Time | | |

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS

2 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| *REPORT TO:* | *INVOICE TO:* |
|---|---|
| Company | Company |
| Address See page 1 | Address |
| Contact | Contact |
| Phone | Phone |
| FAX | FAX |
| E-mail | E-mail |
| Project Name/Number: | Sampler's Name: Amanda Langin |
| | Signature: |

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MYA-110 | TOPIA |
|---|---|---|---|---|---|---|---|
| RC5-SED-0-4-01-042420 | S | 4/24/20 | 1000 | HDPE/1 | L33050-10 | X | X |
| RC5-SED-4-6-01-042420 | S | 4/24/20 | 1015 | | -11 | X | X |
| RC5-SED-22-26-01-042420 | S | 4/24/20 | 1030 | | -12 | X | X |
| RC5-SED-WET-3-12-01-042420 | S | 4/24/20 | 1045 | | -13 | X | X |
| RC5-SED-WET-12-18-01-042420 | S | 4/24/20 | 1100 | | -14 | X | X |
| RC6-SED-WET-0-6-01-042420 | S | 4/24/20 | 1120 | | -15 | X | X |
| RC6-SED-WET-12-18-01-042420 | S | 4/24/20 | 1140 | | -16 | X | X |
| RC3-SED-WET-0-6-01-042520 | S | 4/25/20 | 0900 | | -17 | X | X |
| RC3-SED-WET-12-18-01-042520 | S | 4/25/20 | 0915 | | -18 | X | X |
| RC3A-SED-WET-0-6-01-042520 | S | 4/25/20 | 0930 | HDPE/2 | L33049-2 | X | X |
| RCR-SED-0-6-01-042520 | S | 4/25/20 | 1015 | HDPE/1 | -3 | X | X |

| | | | |
|---|---|---|---|
| Relinquished by (Signature) | Date 5/6/20 | Time 1600 | Received by (Signature) Jennifer Carlson Date 07 May 2020 Time 10:35 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time |

Courier: Waybill No. 8149 0205 4430

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

S 4/26/20 — HDPE/1

Triplicate L33049-2

SGS AXYS

# CHAIN OF CUSTODY

1 of 2

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | | INVOICE TO: | |
|---|---|---|---|
| Company | AECOM | Company | |
| Address | 800 LaSalle Ave S<br>Ste 1100<br>Minneapolis, MN 55402 | Address | SAME |
| Contact | Andrew Tarara | Contact | |
| Phone | 612-376-2452 | Phone | |
| FAX | | FAX | |
| E-mail | andrew.tarara@aecom.com | E-mail | |

Project Name/Number: 89067/60618753

Sampler's Name: Amanda Lanning

Signature:

ANALYSIS REQUESTED: MLA-110

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 |
|---|---|---|---|---|---|---|
| EP21-SED-0-6-01-042520 | S | 4/25/20 | 1030 | HDPE/1 | L33050-19 | X |
| EP17-SED-WET-0-6-01-042520 | S | 4/25/20 | 1215 | | -20 | X |
| EP17-SED-WET-6-12-01-042520 | S | 4/25/20 | 1230 | | -21 | X |
| EP17-SED-0-6-01-042520 | S | 4/25/20 | 1245 | | -22 | X |
| EP19-SED-WET-0-6-01-042520 | S | 4/25/20 | 1315 | | -23 | X |
| EP19-SED-WET-6-12-01-042520 | S | 4/25/20 | 1330 | | -24 | X |
| EP19-SED-24-30-01-042520 | S | 4/25/20 | 1345 | | -25 | X |
| EP19-SED-36-42-01-042520 | S | 4/25/20 | 1400 | | -26 | X |
| ✓ RC21-WAT-BULK-01-042320 | W | 4/23/20 | 1400 | HDPE/4 | L33047-4 | X |
| ✓ EP21-WAT-BULK-01-042320 | W | 4/23/20 | 1300 | HDPE/2 | -5 | X |
| ✓ EP21-WAT-BULK-01-042420 | W | 4/24/20 | 1425 | HDPE/4 | -6 | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlson<br>Date 07 May 2020 Time 10:35 | | 8149 0205 4418 |
| Relinquished by (Signature) | Date | Time | Received by (Signature)<br>Date Time | | |

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

2 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | | INVOICE TO: | |
|---|---|---|---|
| Company | AECOM | Company | |
| Address | 800 Lasalle Ave S Ste 1100 Minneapolis, MN 55402 | Address | |
| Contact | Andrew Tarara | Contact | |
| Phone | 612-376-2452 | Phone | |
| FAX | | FAX | |
| E-mail | andrewtarara@aecom.com | E-mail | |

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning

Signature:

ANALYSIS REQUESTED: MA-110, Tripblank

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MA-110 | Tripblank | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC14-SED-WET-0-6-01-043020 | S | 4/30/20 | 1130 | HDPE/1 | L33050-27 | X | | | | |
| RC14-SED-WET-0-6-02-043020 | S | 4/30/20 | 1145 | HDPE/1 | -28 | X | | | | |
| RC14-SED-WET-6-12-01-043020 | S | 4/30/20 | 1200 | HDPE/1 | -29 | X | | | | |
| EP21-SED-BEACH-FOAM-01-050520 | S | 5/5/20 | 1530 | HDPE/1 | ~~-46~~ 47 (DPR 13-May-20 | X | | | | |
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| | | | | | | | | | | |
| Tripblank | | | | | L33047-1 | X | X | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlson Date 07 May 2020 Time 10:35 | | 8490205 4418 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time | Sample Receipt | |

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

1 of 2

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave S Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-367-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company:
Address: SAME
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MM4-110 | MSMSD | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EP16-SED-0-6-01-042720 | S | 4/27/20 | 1400 | 4 HDPE/1 | L33050-30 | X | | | | |
| EP16-SED-0-6-02-042720 | S | 4/29/20 | 1415 | | -31 | X | | | | |
| EP16-SED-0-6-03-042720 | S | | 1430 | | -32 | X | X | | | |
| EP16-SED-6-18-01-042720 | S | | 1435 | | -33 | X | | | | |
| EP16-SED-30-36-01-042720 | S | | 1445 | | -34 | X | | | | |
| EP20-SED-WET-0-6-01-042720 | S | | 0930 | | -35 | X | | | | |
| EP20-SED-WET-6-12-042720 | S | | 0945 | | -36 | X | | | | |
| EP20-SED-24-30-01-042720 | S | | 1000 | | -37 | X | | | | |
| EP20-SED-36-42-01-042720 | S | | 1015 | | -38 | X | | | | |
| EP23-SED-0-6-01-042720 | S | | 1230 | | -39 | X | | | | |
| EP24-SED-0-6-01-042720 | S | | 1130 | | -40 | X | | | | |

Relinquished by (Signature): [signature] Date: 5/6/20 Time: 1600
Received by (Signature): Jennifer Carlson Date: 08 MAY 2020 Time: 08:25
Courier: [signature] Waybill No.: 8149 0205 4407

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 2 of 2

**REPORT TO:**
Company
Address See page 1
Contact
Phone
FAX
E-mail

**INVOICE TO:**
Company
Address See page 1
Contact
Phone
FAX
E-mail

Project Name/Number: P1007/606.18753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MUA-110 | MS/MSD | TKN-Block K |
|---|---|---|---|---|---|---|---|---|
| BP1-SED-0.6-01-042720 | S | 4/27/20 | 1100 | HDPE/1 | L33050-41 | X | | |
| VB1-SED-COMP-0.6-042720 | S | 4/29/20 | 1200 | | -42 | X | | |
| VB3-SED-COMP-0.6-01-042720 | S | 4/27/20 | 1230 | | -43 | X | | |
| VB3-SED-COMP-0.6-02-042720 | S | 4/27/20 | 1235 | | -44 | X | | |
| VB3-SED-COMP-0.6-03-042720 | S | 4/27/20 | 1240 | ↓ | -45 | X | X | |
| TRIP Blank | W | 5/6/20 | — | HDPE/1 | L33047-3 | X | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| | 5/6/20 | 1600 | Jennifer Carlsen<br>Date 08 MAY 2020 Time 08:25 | | 8149 0205 4407 |
| Relinquished by (Signature) | Date | Time | Received by (Signature)<br>Date | Time | Sample Receipt |

Remarks

| Sample Receipt | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

* indicates a required field

**Work Order Number: 3000244460**

1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

**PROJECT/CLIENT INFO**

**LABORATORY**

| | | | |
|---|---|---|---|
| Facility Code:* | SR0001491 | Program Code (MDH Lab Only): | Lab Name: |
| Project Name:* | Project 1007 | Project Task Code:* PRJ08141 | Address: |
| Project Manager: | Andrew Tarara | | |
| Potential Hazard? | If yes, add information to **Sampler Comments** field | | EPA Lab ID:* |

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | End Date (mm/dd/yyyy) | End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. FF | ANALYSIS* | MLA-110 | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-067 | RC17-SED-BANK-EAST-0-3-01-042320 | Sample | 23/04/2020 | 1110 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-1 | 1 |
| S016-067 | RC17-SED-BANK-EAST-3-6-01-042320 | Sample | 23/04/2020 | 1130 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-2 | 2 |
| S016-067 | RC17-SED-BANK-WEST-0-3-01-042320 | Sample | 23/04/2020 | 1200 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-3 | 3 |
| S016-067 | RC17-SED-BANK-WEST-3-6-01-042320 | Sample | 23/04/2020 | 1215 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-4 | 4 |
| 82-0109-00-208 | RC18-SED-COMP-0-3-01-042320 | Sample | 23/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-5 | 5 |
| S016-280 | RC21-SED-COMP-0-3-01-042320 | Sample | 23/04/2020 | 0950 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-6 | 6 |
| S016-315 | FC1-SED-0-3-01-042320 | Sample | 23/04/2020 | 1445 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-7 | 7 |
| S016-061 | RC12-SED-12-18-01-042420 | Sample | 24/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-8 | 8 |
| S016-061 | RC12-SED-30-36-01-042420 | Sample | 24/04/2020 | 1430 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-9 | 9 |
| S016-189 | RC5-SED-0-4-01-042420 | Sample | 24/04/2020 | 1000 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-10 | 10 |
| S016-189 | RC5-SED-4-6-01-042420 | Sample | 24/04/2020 | 1015 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-11 | 11 |
| S016-189 | RC5-SED-22-26-01-042420 | Sample | 24/04/2020 | 1030 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-12 | 12 |
| S016-189 | RC5-SED-WET-3-12-01-042420 | Sample | 24/04/2020 | 1045 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-13 | 13 |
| S016-189 | RC5-SED-WET-12-18-01-042420 | Sample | 24/04/2020 | 1100 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-14 | 14 |
| S016-190 | RC6-SED-WET-0-6-01-042420 | Sample | 24/04/2020 | 1120 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-15 | 15 |
| S016-190 | RC6-SED-WET-12-18-01-042420 | Sample | 24/04/2020 | 1140 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-16 | 16 |
| S016-051 | RC3-SED-WET-0-6-01-042520 | Sample | 25/04/2020 | 0900 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-17 | 17 |
| S016-051 | RC3-SED-WET-12-18-01-042520 | Sample | 25/04/2020 | 0915 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-18 | 18 |
| 82-0106-00-303 | EP21-SED-0-6-01-042520 | Sample | 25/04/2020 | 1030 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-19 | 19 |
| 82-0109-00-452 | EP17-SED-WET-0-6-01-042520 | Sample | 25/04/2020 | 1215 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-20 | 20 |
| 82-0109-00-452 | EP17-SED-WET-6-12-01-042520 | Sample | 25/04/2020 | 1230 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-21 | 21 |
| 82-0109-00-452 | EP17-SED-0-6-01-042520 | Sample | 25/04/2020 | 1245 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-22 | 22 |
| 82-0109-00-453 | EP19-SED-WET-0-6-01-042520 | Sample | 25/04/2020 | 1315 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-23 | 23 |
| 82-0109-00-453 | EP19-SED-WET-6-12-01-042520 | Sample | 25/04/2020 | 1330 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-24 | 24 |
| 82-0109-00-453 | EP19-SED-24-30-01-042520 | Sample | 25/04/2020 | 1345 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-25 | 25 |
| 82-0109-00-453 | EP19-SED-36-42-01-042520 | Sample | 25/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-26 | 26 |
| S016-314 | RC16A-SED-WET-0-6-01-043020 | Sample | 30/04/2020 | 1130 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-27 | 27 |
| S016-314 | RC16A-SED-WET-0-6-02-043020 | QC-FR | 30/04/2020 | 1145 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-28 | 28 |
| S016-314 | RC16A-SED-WET-6-12-01-043020 | Sample | 30/04/2020 | 1200 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-29 | 29 |
| S016-234 | EP16-SED-0-6-01-042720 | Sample | 27/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-30 | 30 |
| S016-234 | EP16-SED-0-6-02-042720 | QC-FR | 27/04/2020 | 1415 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-31 | 31 |
| S016-234 | EP16-SED-0-6-03-042720 | QC-FR | 27/04/2020 | 1430 | | | | G | | | SD | | Sed-USieve | | MS/MSD | 1 | | | X | L33050-32 | 32 |
| S016-234 | EP16-SED-6-18-01-042720 | Sample | 27/04/2020 | 1435 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-33 | 33 |
| S016-234 | EP16-SED-30-36-01-042720 | Sample | 27/04/2020 | 1445 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-34 | 34 |
| 82-0109-00-454 | EP20-SED-WET-0-6-01-042720 | Sample | 27/04/2020 | 0930 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-35 | 35 |
| 82-0109-00-454 | EP20-SED-WET-6-12-01-042720 | Sample | 27/04/2020 | 0945 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-36 | 36 |
| 82-0109-00-454 | EP20-SED-24-30-01-042720 | Sample | 27/04/2020 | 1000 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-37 | 37 |
| 82-0109-00-454 | EP20-SED-36-42-01-042720 | Sample | 27/04/2020 | 1015 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-38 | 38 |
| 82-0106-00-302 | EP23-SED-0-6-01-042720 | Sample | 27/04/2020 | 1230 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-39 | 39 |
| 82-0107-00-204 | EP24-SED-0-6-01-042720 | Sample | 27/04/2020 | 1130 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-40 | 40 |
| 82-0111-00-201 | BP1-SED-0-6-01-042720 | Sample | 27/04/2020 | 1100 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-41 | 41 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-281 | VB1-SED-COMP-0-6-01-042720 | Sample | 27/04/2020 | 1200 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-42 | 42 |
| S016-316 | VB3-SED-COMP-0-6-01-042720 | Sample | 27/04/2020 | 1230 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-43 | 43 |
| S016-316 | VB3-SED-COMP-0-6-02-042720 | QC-FR | 27/04/2020 | 1235 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-44 | 44 |
| S016-316 | VB3-SED-COMP-0-6-03-042720 | QC-FR | 27/04/2020 | 1240 | | | | G | | | SD | | Sed-USieve | | MS/MSD | 1 | | x | | L33050-45 | 45 |
| 82-0106-00-303 | EP21-SED-FOAM-0-6-01-042320 | Sample | 23/04/2020 | 1240 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-46 | 46 |
| 82-0106-00-303 | EP21-SED-BEACH-FOAM-01-050520 | Sample | 05/05/2020 | 1530 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-47 | 47 |

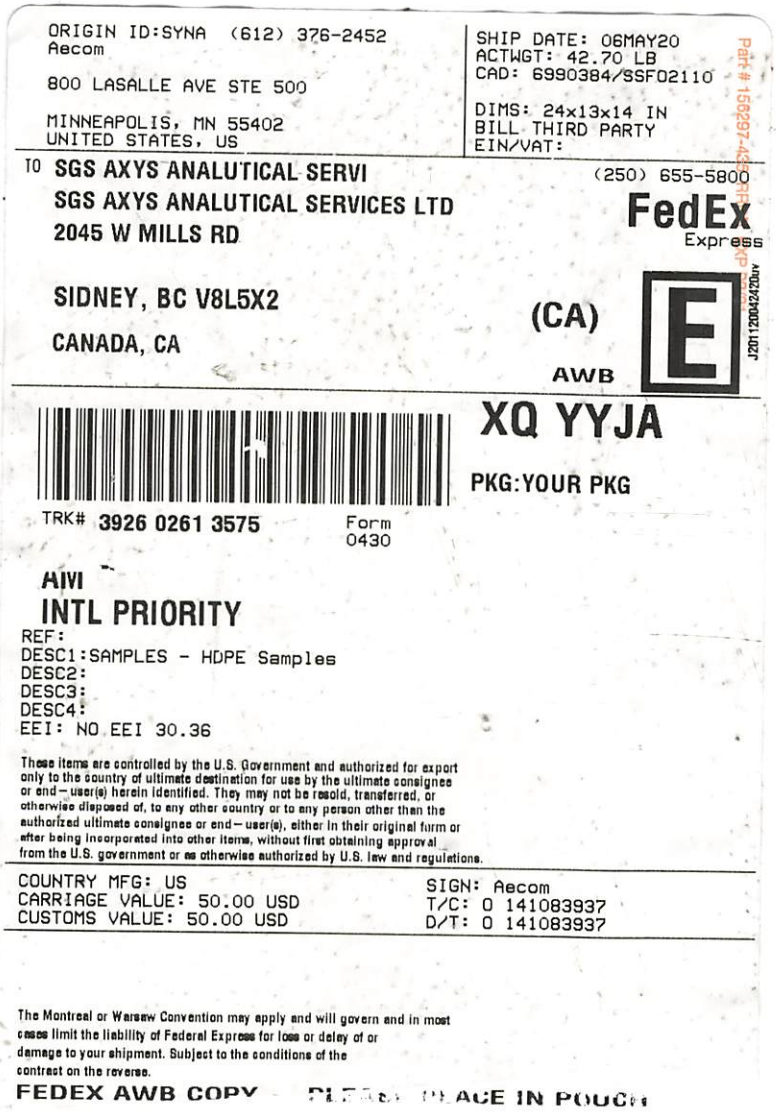
| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |

**Receiving Comments:**

| Relinquished By/Affiliation | Date/Time | Accepted By/Affiliation | Date/Time |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

WB27446



ORIGIN ID:SYNA (612) 376-2452
Aecom

800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 42.70 LB
CAD: 6990384/SSF02110

DIMS: 24x13x14 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435RR
XP

TO **SGS AXYS ANALUTICAL SERVI**
**SGS AXYS ANALUTICAL SERVICES LTD**
**2045 W MILLS RD**

**SIDNEY, BC V8L5X2**

**CANADA, CA**

(250) 655-5800

**FedEx**
Express

**(CA)**

**AWB**

**E**

J201120042420uv

**XQ YYJA**

**PKG:YOUR PKG**

TRK# **3926 0261 3575**

Form
0430

**AIVI**
**INTL PRIORITY**

REF:
DESC1:SAMPLES - HDPE Samples
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 50.00 USD
CUSTOMS VALUE: 50.00 USD

SIGN: Aecom
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY - PLEASE PLACE IN POUCH**

10:35

RECEIVED
MAY 07 2020
Jennifer Carlsen

5728
5.4°C

bagged wet
ice melting

4095

ORIGIN ID:SYNA (612) 376-2452
Aecom
800 LASALLE AVE STE 500
MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 49.75 LB
CAD: 6990384/SSF02110
DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

TO SGS AXYS ANALUTICAL SERVI (250) 655-5800
SGS AXYS ANALUTICAL SERVICES LTD
2045 W MILLS RD
SIDNEY, BC V8L5X2 (CA)
CANADA, CA

FedEx Express

AWB

XQ YYJA
AHS
PKG:YOUR PKG

TRK# 3926 0299 3191 Form 0430

AM
INTL PRIORITY

REF:
DESC1:SAMPLES - Each
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 115.00 USD
CUSTOMS VALUE: 115.00 USD

SIGN: Aecom
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:35

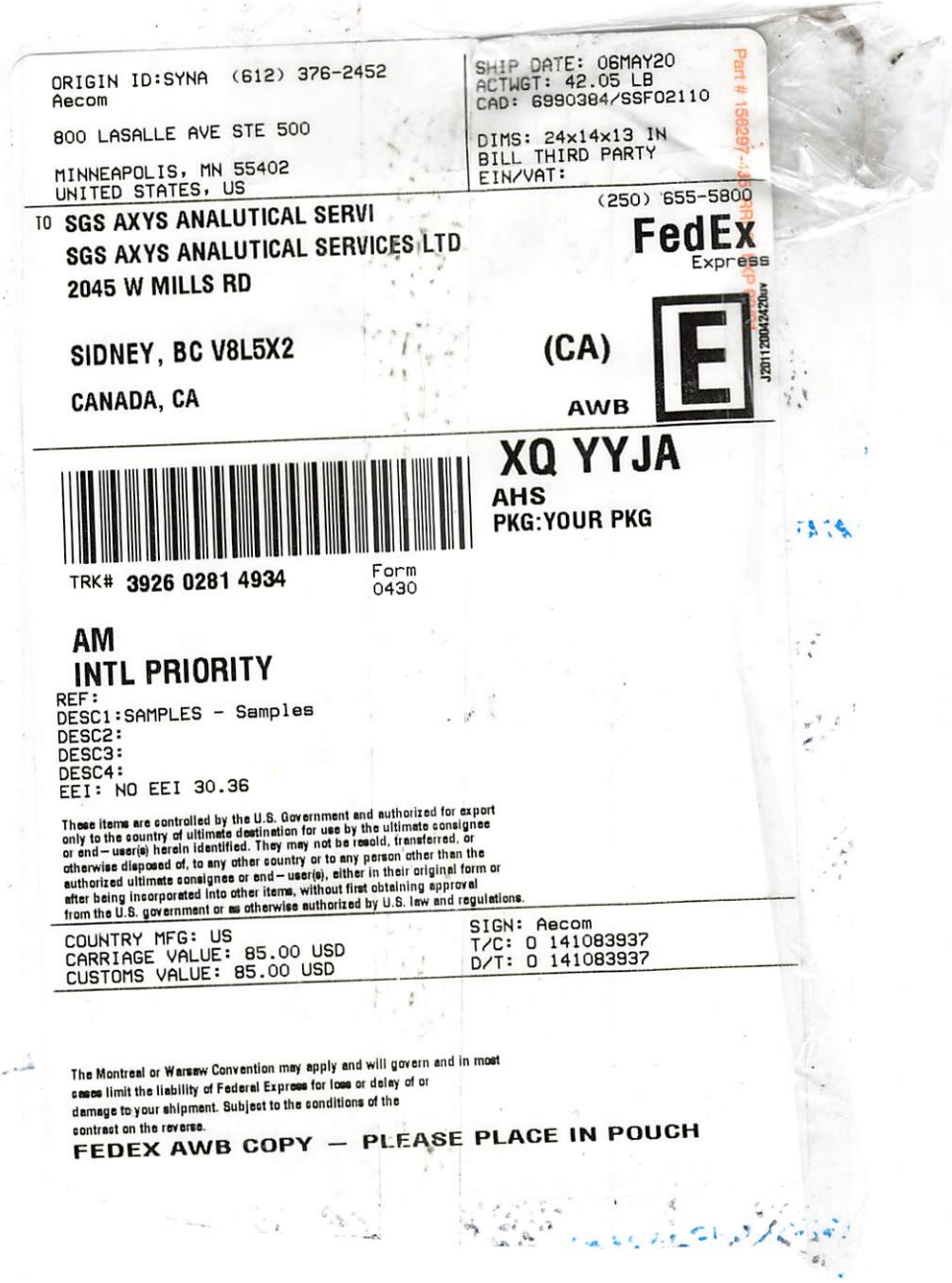
RECEIVED
MAY 07 2020
Jennifer Carlson

7.7°C
5713
bagged wet ice
melting

WB27448

4095

WB27449



ORIGIN ID:SYNA (612) 376-2452
Aecom

800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 42.05 LB
CAD: 6990384/SSF02110

DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RRP 4/20 KP

(250) 655-5800

TO SGS AXYS ANALUTICAL SERVI
SGS AXYS ANALUTICAL SERVICES LTD
2045 W MILLS RD

SIDNEY, BC V8L5X2

CANADA, CA

FedEx Express

(CA)

AWB

E

J201120042420uv

XQ YYJA
AHS
PKG:YOUR PKG

TRK# 3926 0281 4934

Form 0430

AM
INTL PRIORITY

REF:
DESC1:SAMPLES - Samples
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 85.00 USD
CUSTOMS VALUE: 85.00 USD

SIGN: Aecom
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

FEDEX AWB COPY — PLEASE PLACE IN POUCH

8:25
6.4°C
5745
~~TP~~ Bags wet
ice, melted

RECEIVED
08
MAY ~~07~~ 2020
AG 08MAY2020
Jennifer Carlson

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602613575
Date /Time Received: 07-MAY-20 10:35
Receipt No: WB27446

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE

Signature:

Axys Sample ID's: L33050-19 to -29, -47 L33047-1, -4 to -6

Matrix Type: S/AQ

Thermometer ID: 5728

Condition of Shipping Container: intact

Corrected Temperature: 5.2 Celcius

Temperature upon Receipt: 5.4 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602993191
Date /Time Received: 07-MAY-20 10:35
Receipt No: WB27448

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENSDIVE Signature:

Axys Sample ID's: L33050-1 to -18, -46 L33049-1 to -3 L33047-2

Matrix Type: S

Thermometer ID: 5713

Condition of Shipping Container: Intact

Corrected Temperature: 7.6 Celcius

Temperature upon Receipt: 7.7 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602814934
Date /Time Received: 08-MAY-20 08:25
Receipt No: WB27449

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: DGRENDIVE Signature:

Axys Sample ID's: L33050-30 to -45 L33047-3

Matrix Type: S/AQ

Thermometer ID: 5745

Condition of Shipping Container: intact

Corrected Temperature: 6.2 Celcius

Temperature upon Receipt: 6.4 Celcius bagged wet ice, melted

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Checked 14-May-20 DPR*

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33050-1** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC17-SED-BANK-EAST-0-3-01-042320<br>23-APR-20 11:10 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-2** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC17-SED-BANK-EAST-3-6-01-042320<br>23-APR-20 11:30 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-3** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC17-SED-BANK-WEST-0-3-01-042320<br>23-APR-20 12:00 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-4** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC17-SED-BANK-WEST-3-6-01-042320<br>23-APR-20 12:15 | | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-5** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC18-SED-COMP-0-3-01-042320<br>23-APR-20 14:00 | | 82-0109-00-208<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-6** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC21-SED-COMP-0-3-01-042320<br>23-APR-20 09:50 | | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-7** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| FC1-SED-0-3-01-042320<br>23-APR-20 14:45 | | S016-315<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-8** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC12-SED-12-18-01-042420<br>24-APR-20 14:00 | | S016-061<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-9** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC12-SED-30-36-01-042420<br>24-APR-20 14:30 | | S016-061<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-10** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC5-SED-0-4-01-042420 | S016-189 | | | |
| 24-APR-20 10:00 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-11** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC5-SED-4-6-01-042420 | S016-189 | | | |
| 24-APR-20 10:15 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-12** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC5-SED-22-26-01-042420 | S016-189 | | | |
| 24-APR-20 10:30 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-13** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC5-SED-WET-3-12-01-0-042420<br>24-APR-20 10:45 | | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-14** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC5-SED-WET-12-18-01-042420<br>24-APR-20 11:00 | | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-15** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC6-SED-WET-0-6-01-042420<br>24-APR-20 11:20 | | S016-190<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-16** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC6-SED-WET-12-18-01-042420<br>24-APR-20 11:40 | | S016-190<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-17** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC3-SED-WET-0-6-01-042520<br>25-APR-20 09:00 | | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-18** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC3-SED-WET-12-18-01-042520<br>25-APR-20 09:15 | | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-19** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP21-SED-0-6-01-042520<br>25-APR-20 10:30 | | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-20** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP17-SED-WET-0-6-01-042520<br>25-APR-20 12:15 | | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-21** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP17-SED-WET-6-12-01-042520<br>25-APR-20 12:30 | | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-22** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP17-SED-0-6-01-042520<br>25-APR-20 12:45 | | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-23** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP19-SED-WET-0-6-01-042520<br>25-APR-20 13:15 | | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-24** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP19-SED-WET-6-12-01-042520<br>25-APR-20 13:30 | | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-25** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP19-SED-24-30-01-042520<br>25-APR-20 13:45 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-26** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP19-SED-36-42-01-042520<br>25-APR-20 14:00 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-27** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC16A-SED-WET-0-6-01-043020<br>30-APR-20 11:30 | S016-314<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-28** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC16A-SED-WET-0-6-02-043020<br>30-APR-20 11:45 | | S016-314<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-29** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC16A-SED-WET-6-12-01-043020<br>30-APR-20 12:00 | | S016-314<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-30** | | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP16-SED-0-6-01-042720<br>27-APR-20 14:00 | | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-31** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-0-6-02-042720 | S016-234 | | | |
| 27-APR-20 14:15 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-32** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-0-6-03-042720 | S016-234 | | | |
| 27-APR-20 14:30 | Project #: TIM LOCKREM 2019 | | | |
| Comments: For MS/MSD | | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-33** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-6-18-01-042720 | S016-234 | | | |
| 27-APR-20 14:35 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

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**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-34** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-30-36-01-042720<br>27-APR-20 14:45 | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-35** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-WET-0-6-01-042720<br>27-APR-20 09:30 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-36** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-WET-6-12-042720<br>27-APR-20 09:45 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

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*May. 14, 2020*

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**Account:** 4095 Minnesota Pollution Control

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-37** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-24-30-01-042720<br>27-APR-20 10:00 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-38** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-36-42-01-042720<br>27-APR-20 10:15 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-39** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP23-SED-0-6-01-042720<br>27-APR-20 12:30 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-40** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP24-SED-0-6-01-042720<br>27-APR-20 11:30 | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-41** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| BP1-SED-0-6-01-042720<br>27-APR-20 11:00 | 82-0111-00-201<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-42** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| VB1-SED-COMP-0-6-01-042720<br>27-APR-20 12:00 | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-43** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| VB3-SED-COMP-0-6-01-042720<br>27-APR-20 12:30 | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-44** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| VB3-SED-COMP-0-6-02-042720<br>27-APR-20 12:35 | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-45** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| VB3-SED-COMP-0-6-03-042720<br>27-APR-20 12:40 | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| Comments: For MS/MSD | | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-46** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP21-SED-FOAM-0-6-01-042320 | 82-0106-00-303 | | | |
| 23-APR-20 12:40 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-47** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP21-SED-BEACH-FOAM-01-050520 | 82-0106-00-303 | | | |
| 05-MAY-20 15:30 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

| Contract: 4095 | Date: 13-May-2020 | Initials: RTG |
|---|---|---|

| Axys ID | Client ID | | Sampling Date&Time | | Missing | Damaged Label | Other/Comments: |
|---|---|---|---|---|---|---|---|
| | COC | Client Label (if discrepancy) | COC | Client Label (if discrepancy) | | | |
| L33050-18 | RC3-SED-WET-12-18-01-042520 | RC-3-SED-WET-12-18-01-042520 | 25/03/2020 9:15:00 AM | | | | Logged in as per COC |
| L33050-43 | VB3-SED-COMP-0-6-01-042720 | VB3-SED-COMP01-042720 | 27/04/2020 12:30:00 PM | | | | Logged in as per COC |
| L33050-44 | VB3-SED-COMP-0-6-02-042720 | VB3-SED-COMP02-042720 | 27/04/2020 12:35:00 PM | | | | Logged in as per COC |
| L33050-45 | VB3-SED-COMP-0-6-03-042720 | VB3-SED-COMP03-042720 | 23/04/2020 12:40:00 PM | | | | Logged in as per COC |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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4095

WB27449

L33050 -~~30~~ 29 to -45

43 - VB3-SED-comp 01 - 042720
44 - VB3-SED-comp 02 - 042720
45 - VB3-SED-comp 03- 04272

Processed by:
RAG/JTC
12-MAY-2020

WB27446

L33050 -19 to -29
-47

WB27448

L33050-1 to -18
-46

-18: RC-3-SED-WET-12-18-01-042520

L33049-1 to -3

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-SED-WET-6-12-01-042520**
**Sample Collection:**
**25-Apr-2020 12:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-21 |
| **Matrix:** | SOLID | **Sample Size:** | 5.61 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:09:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 33.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.390 | 0.285 (L) | 1:57 |
| **PFPeA** | U | | 0.143 (L) | |
| **PFHxA** | J | 0.142 | 0.0713 (L) | 4:57 |
| **PFHpA** | J | 0.101 | 0.0713 (L) | 5:25 |
| **PFOA** | | 1.75 | 0.0713 (L) | |
| **PFNA** | U | | 0.0713 (L) | |
| **PFDA** | | 0.218 | 0.0713 (L) | 7:31 |
| **PFUnA** | U | | 0.0713 (L) | |
| **PFDoA** | U | | 0.0713 (L) | |
| **PFTrDA** | U | | 0.0713 (L) | |
| **PFTeDA** | U | | 0.0713 (L) | |
| **PFBS** | U | | 0.0713 (L) | |
| **PFPeS** | J | 0.089 | 0.0713 (L) | 5:27 |
| **PFHxS** | | 0.378 | 0.0713 (L) | |
| **PFHpS** | | 0.215 | 0.0713 (L) | 7:09 |
| **PFOS** | | 34.3 | 0.0713 (L) | |
| **PFNS** | U | | 0.0713 (L) | |
| **PFDS** | U | | 0.0713 (L) | |
| **PFDoS** | U | | 0.0713 (L) | |
| **4:2 FTS** | U | | 0.285 (L) | |
| **6:2 FTS** | U | | 0.257 (L) | |
| **8:2 FTS** | U | | 0.285 (L) | |
| **PFOSA** | J | 0.230 | 0.0713 (L) | |
| **N-MeFOSA** | U | | 0.0819 (L) | |
| **N-EtFOSA** | U | | 0.178 (L) | |
| **MeFOSAA** | U | | 0.0713 (L) | |
| **EtFOSAA** | U | | 0.0713 (L) | |
| **N-MeFOSE** | U | | 0.713 (L) | |
| **N-EtFOSE** | U | | 0.534 (L) | |
| **HFPO-DA** | U | | 0.271 (L) | |
| **ADONA** | U | | 0.285 (L) | |
| **9Cl-PF3ONS** | U | | 0.285 (L) | |
| **11Cl-PF3OUdS** | U | | 0.285 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-21_Form1A_FC0L_169S19_SJ2749312.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-SED-WET-6-12-01-042520**
**Sample Collection:**
**25-Apr-2020 12:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-21 |
| **Matrix:** | SOLID | **Sample Size:** | 5.61 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:09:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 33.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.9 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.14 | 91.4 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 8.96 | 89.6 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.93 | 89.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.48 | 89.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.00 | 100 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.85 | 97.0 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.90 | 98.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.16 | 63.3 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.54 | 95.4 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 8.97 | 89.7 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 22.3 | 112 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 14.5 | 72.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.7 | 98.4 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.78 | 97.8 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 4.14 | 41.4 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.09 | 30.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 27.2 | 136 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 29.8 | 149 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 67.1 | 67.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 57.9 | 57.9 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.1 | 92.8 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-21_Form2_FC0L_169S19_SJ2749312.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-SED-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 12:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-22 |
| **Matrix:** | SOLID | **Sample Size:** | 4.65 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:22:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 47.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.626 | 0.344 (L) | 1:57 |
| **PFPeA** | U | | 0.172 (L) | |
| **PFHxA** | J | 0.159 | 0.0860 (L) | 4:57 |
| **PFHpA** | J | 0.164 | 0.0860 (L) | 5:25 |
| **PFOA** | | 2.66 | 0.0860 (L) | |
| **PFNA** | J | 0.110 | 0.0860 (L) | |
| **PFDA** | | 0.602 | 0.0860 (L) | 7:31 |
| **PFUnA** | U | | 0.0860 (L) | |
| **PFDoA** | U | | 0.0860 (L) | |
| **PFTrDA** | U | | 0.0860 (L) | |
| **PFTeDA** | U | | 0.0860 (L) | |
| **PFBS** | J | 0.137 | 0.0860 (L) | 4:54 |
| **PFPeS** | J | 0.146 | 0.0860 (L) | 5:27 |
| **PFHxS** | | 0.609 | 0.0860 (L) | |
| **PFHpS** | | 0.377 | 0.0860 (L) | 7:08 |
| **PFOS** | | 73.1 | 0.0860 (L) | |
| **PFNS** | U | | 0.0860 (L) | |
| **PFDS** | U | | 0.0860 (L) | |
| **PFDoS** | U | | 0.0860 (L) | |
| **4:2 FTS** | U | | 0.344 (L) | |
| **6:2 FTS** | U | | 0.310 (L) | |
| **8:2 FTS** | U | | 0.344 (L) | |
| **PFOSA** | | 0.416 | 0.0860 (L) | |
| **N-MeFOSA** | U | | 0.0989 (L) | |
| **N-EtFOSA** | U | | 0.215 (L) | |
| **MeFOSAA** | J | 0.090 | 0.0860 (L) | |
| **EtFOSAA** | | 0.270 | 0.0860 (L) | |
| **N-MeFOSE** | U | | 0.860 (L) | |
| **N-EtFOSE** | U | | 0.645 (L) | |
| **HFPO-DA** | U | | 0.327 (L) | |
| **ADONA** | U | | 0.344 (L) | |
| **9Cl-PF3ONS** | U | | 0.344 (L) | |
| **11Cl-PF3OUdS** | U | | 0.344 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-22_Form1A_FC0L_169S20_SJ2749313.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-SED-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 12:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-22 |
| **Matrix:** | SOLID | **Sample Size:** | 4.65 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:22:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 47.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.1 | 90.1 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.1 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.53 | 95.3 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.74 | 97.4 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.76 | 97.6 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.51 | 90.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.95 | 99.0 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.91 | 98.2 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.90 | 97.9 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.14 | 62.8 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.36 | 93.6 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.00 | 90.0 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.18 | 91.8 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 25.8 | 129 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.1 | 80.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 23.7 | 119 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.65 | 96.5 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 3.42 | 34.2 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 2.28 | 22.8 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 25.6 | 128 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 30.0 | 150 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 51.8 | 51.8 | 9:57 |
| **d9-NEt-FOSE** | V | 100 | 47.4 | 47.4 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 36.4 | 91.0 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-22_Form2_FC0L_169S20_SJ2749313.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP19-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 13:15**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-23 |
| **Matrix:** | SOLID | **Sample Size:** | 5.05 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:36:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 29.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.520 | 0.317 (L) | 1:57 |
| **PFPeA** | U | | 0.158 (L) | |
| **PFHxA** | U | | 0.0793 (L) | |
| **PFHpA** | U | | 0.0793 (L) | |
| **PFOA** | | 0.425 | 0.0793 (L) | |
| **PFNA** | U | | 0.0793 (L) | |
| **PFDA** | U | | 0.0793 (L) | |
| **PFUnA** | U | | 0.0793 (L) | |
| **PFDoA** | U | | 0.0793 (L) | |
| **PFTrDA** | U | | 0.0793 (L) | |
| **PFTeDA** | U | | 0.0793 (L) | |
| **PFBS** | U | | 0.0793 (L) | |
| **PFPeS** | U | | 0.0793 (L) | |
| **PFHxS** | J | 0.089 | 0.0793 (L) | |
| **PFHpS** | U | | 0.0793 (L) | |
| **PFOS** | | 7.54 | 0.0793 (L) | |
| **PFNS** | U | | 0.0793 (L) | |
| **PFDS** | U | | 0.0793 (L) | |
| **PFDoS** | U | | 0.0793 (L) | |
| **4:2 FTS** | U | | 0.317 (L) | |
| **6:2 FTS** | U | | 0.285 (L) | |
| **8:2 FTS** | U | | 0.317 (L) | |
| **PFOSA** | J | 0.125 | 0.0793 (L) | |
| **N-MeFOSA** | U | | 0.0911 (L) | |
| **N-EtFOSA** | U | | 0.198 (L) | |
| **MeFOSAA** | U | | 0.0793 (L) | |
| **EtFOSAA** | J | 0.123 | 0.0793 (L) | |
| **N-MeFOSE** | U | | 0.792 (L) | |
| **N-EtFOSE** | U | | 0.594 (L) | |
| **HFPO-DA** | U | | 0.301 (L) | |
| **ADONA** | U | | 0.317 (L) | |
| **9Cl-PF3ONS** | U | | 0.317 (L) | |
| **11Cl-PF3OUdS** | U | | 0.317 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-23_Form1A_FC0L_169S21_SJ2749314.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 13:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-23 |
| **Matrix:** | SOLID | **Sample Size:** | 5.05 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:36:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 29.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.5 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.3 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.81 | 98.1 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.85 | 98.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.30 | 93.0 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.59 | 91.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.84 | 96.8 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.78 | 95.6 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.33 | 86.6 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.28 | 65.6 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.2 | 102 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.29 | 92.9 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.4 | 76.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.0 | 95.0 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.45 | 94.5 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 4.29 | 42.9 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.67 | 36.7 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.5 | 118 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 24.5 | 122 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 72.5 | 72.5 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 67.8 | 67.8 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 35.4 | 88.5 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-23_Form2_FC0L_169S21_SJ2749314.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-SED-WET-6-12-01-042520**
**Sample Collection:**
**25-Apr-2020 13:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-24 |
| **Matrix:** | SOLID | **Sample Size:** | 5.69 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:49:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 23.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.289 | 0.281 (L) | 1:57 |
| **PFPeA** | U | | 0.141 (L) | |
| **PFHxA** | U | | 0.0703 (L) | |
| **PFHpA** | U | | 0.0703 (L) | |
| **PFOA** | | 0.376 | 0.0703 (L) | |
| **PFNA** | U | | 0.0703 (L) | |
| **PFDA** | U | | 0.0703 (L) | |
| **PFUnA** | U | | 0.0703 (L) | |
| **PFDoA** | U | | 0.0703 (L) | |
| **PFTrDA** | U | | 0.0703 (L) | |
| **PFTeDA** | U | | 0.0703 (L) | |
| **PFBS** | U | | 0.0703 (L) | |
| **PFPeS** | U | | 0.0703 (L) | |
| **PFHxS** | U | | 0.0703 (L) | |
| **PFHpS** | U | | 0.0703 (L) | |
| **PFOS** | | 6.51 | 0.0703 (L) | |
| **PFNS** | U | | 0.0703 (L) | |
| **PFDS** | U | | 0.0703 (L) | |
| **PFDoS** | U | | 0.0703 (L) | |
| **4:2 FTS** | U | | 0.281 (L) | |
| **6:2 FTS** | U | | 0.253 (L) | |
| **8:2 FTS** | U | | 0.281 (L) | |
| **PFOSA** | J | 0.119 | 0.0703 (L) | |
| **N-MeFOSA** | U | | 0.0808 (L) | |
| **N-EtFOSA** | U | | 0.176 (L) | |
| **MeFOSAA** | U | | 0.0703 (L) | |
| **EtFOSAA** | J | 0.102 | 0.0703 (L) | |
| **N-MeFOSE** | U | | 0.703 (L) | |
| **N-EtFOSE** | U | | 0.527 (L) | |
| **HFPO-DA** | U | | 0.267 (L) | |
| **ADONA** | U | | 0.281 (L) | |
| **9Cl-PF3ONS** | U | | 0.281 (L) | |
| **11Cl-PF3OUdS** | U | | 0.281 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-24_Form1A_FC0L_169S22_SJ2749315.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-SED-WET-6-12-01-042520**
**Sample Collection:**
**25-Apr-2020 13:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-24 |
| **Matrix:** | SOLID | **Sample Size:** | 5.69 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 21:49:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 23.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.6 | 94.0 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 101 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.58 | 95.8 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.00 | 90.0 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.64 | 92.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.69 | 93.9 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.73 | 94.6 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.81 | 96.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.83 | 76.6 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.9 | 109 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.74 | 97.4 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.5 | 105 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 21.8 | 109 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.2 | 81.0 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.2 | 95.8 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.26 | 92.6 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 5.29 | 52.9 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.58 | 45.8 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.9 | 119 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 26.5 | 132 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 82.8 | 82.8 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 77.8 | 77.8 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.5 | 93.7 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-24_Form2_FC0L_169S22_SJ2749315.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-SED-24-30-01-042520**
**Sample Collection:**
**25-Apr-2020 13:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-25 |
| **Matrix:** | SOLID | **Sample Size:** | 4.96 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:02:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 24.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.470 | 0.322 (L) | 1:57 |
| **PFPeA** | U | | 0.161 (L) | |
| **PFHxA** | U | | 0.0806 (L) | |
| **PFHpA** | U | | 0.0806 (L) | |
| **PFOA** | | 0.383 | 0.0806 (L) | |
| **PFNA** | U | | 0.0806 (L) | |
| **PFDA** | U | | 0.0806 (L) | |
| **PFUnA** | U | | 0.0806 (L) | |
| **PFDoA** | U | | 0.0806 (L) | |
| **PFTrDA** | U | | 0.0806 (L) | |
| **PFTeDA** | U | | 0.0806 (L) | |
| **PFBS** | U | | 0.0806 (L) | |
| **PFPeS** | U | | 0.0806 (L) | |
| **PFHxS** | U | | 0.0806 (L) | |
| **PFHpS** | U | | 0.0806 (L) | |
| **PFOS** | | 8.27 | 0.0806 (L) | |
| **PFNS** | U | | 0.0806 (L) | |
| **PFDS** | U | | 0.0806 (L) | |
| **PFDoS** | U | | 0.0806 (L) | |
| **4:2 FTS** | U | | 0.322 (L) | |
| **6:2 FTS** | U | | 0.290 (L) | |
| **8:2 FTS** | U | | 0.322 (L) | |
| **PFOSA** | J | 0.132 | 0.0806 (L) | |
| **N-MeFOSA** | U | | 0.0927 (L) | |
| **N-EtFOSA** | U | | 0.201 (L) | |
| **MeFOSAA** | U | | 0.0806 (L) | |
| **EtFOSAA** | R J | 0.108 | 0.0806 (L) | |
| **N-MeFOSE** | U | | 0.806 (L) | |
| **N-EtFOSE** | U | | 0.604 (L) | |
| **HFPO-DA** | U | | 0.306 (L) | |
| **ADONA** | U | | 0.322 (L) | |
| **9Cl-PF3ONS** | U | | 0.322 (L) | |
| **11Cl-PF3OUdS** | U | | 0.322 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; R = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-25_Form1A_FC0L_169S23_SJ2749316.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP19-SED-24-30-01-042520**
**Sample Collection:**
**25-Apr-2020 13:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-25 |
| **Matrix:** | SOLID | **Sample Size:** | 4.96 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:02:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 24.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.1 | 92.7 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 104 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.87 | 98.7 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.57 | 95.7 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.02 | 90.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.9 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.43 | 109 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.06 | 101 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.69 | 93.8 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.53 | 70.5 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.2 | 102 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.48 | 94.8 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.85 | 98.5 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 20.4 | 102 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.3 | 81.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 20.1 | 100 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 8.92 | 89.2 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.11 | 61.1 | 10:05 |
| **D5-N-EtFOSA** | V | 10.0 | 4.84 | 48.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.2 | 116 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 24.5 | 123 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 80.3 | 80.3 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 72.6 | 72.6 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 38.2 | 95.4 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-25_Form2_FC0L_169S23_SJ2749316.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-SED-36-42-01-042520**
**Sample Collection:**
**25-Apr-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-26 |
| **Matrix:** | SOLID | **Sample Size:** | 4.94 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:15:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 17.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.324 (L) | |
| **PFPeA** | U | | 0.162 (L) | |
| **PFHxA** | U | | 0.0810 (L) | |
| **PFHpA** | U | | 0.0810 (L) | |
| **PFOA** | J | 0.146 | 0.0810 (L) | |
| **PFNA** | U | | 0.0810 (L) | |
| **PFDA** | U | | 0.0810 (L) | |
| **PFUnA** | U | | 0.0810 (L) | |
| **PFDoA** | U | | 0.0810 (L) | |
| **PFTrDA** | U | | 0.0810 (L) | |
| **PFTeDA** | U | | 0.0810 (L) | |
| **PFBS** | U | | 0.0810 (L) | |
| **PFPeS** | U | | 0.0810 (L) | |
| **PFHxS** | U | | 0.0810 (L) | |
| **PFHpS** | U | | 0.0810 (L) | |
| **PFOS** | | 2.14 | 0.0810 (L) | |
| **PFNS** | U | | 0.0810 (L) | |
| **PFDS** | U | | 0.0810 (L) | |
| **PFDoS** | U | | 0.0810 (L) | |
| **4:2 FTS** | U | | 0.324 (L) | |
| **6:2 FTS** | U | | 0.292 (L) | |
| **8:2 FTS** | U | | 0.324 (L) | |
| **PFOSA** | U | | 0.0810 (L) | |
| **N-MeFOSA** | U | | 0.0931 (L) | |
| **N-EtFOSA** | U | | 0.202 (L) | |
| **MeFOSAA** | U | | 0.0810 (L) | |
| **EtFOSAA** | U | | 0.0810 (L) | |
| **N-MeFOSE** | U | | 0.810 (L) | |
| **N-EtFOSE** | U | | 0.607 (L) | |
| **HFPO-DA** | U | | 0.308 (L) | |
| **ADONA** | U | | 0.324 (L) | |
| **9Cl-PF3ONS** | U | | 0.324 (L) | |
| **11Cl-PF3OUdS** | U | | 0.324 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-26_Form1A_FC0L_169S24_SJ2749317.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-SED-36-42-01-042520**
**Sample Collection:**
**25-Apr-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-26 |
| **Matrix:** | SOLID | **Sample Size:** | 4.94 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:15:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 17.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.9 | 89.9 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 99.9 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.41 | 94.1 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.04 | 90.4 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.92 | 89.2 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.42 | 88.4 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.01 | 100 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.04 | 101 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.72 | 94.4 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.96 | 79.2 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.90 | 99.0 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.42 | 94.2 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.60 | 96.0 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.3 | 96.7 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.5 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.2 | 90.8 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 8.65 | 86.5 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.42 | 74.2 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.54 | 65.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 20.5 | 103 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.2 | 111 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 91.7 | 91.7 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 94.1 | 94.1 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 35.9 | 89.7 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-26_Form2_FC0L_169S24_SJ2749317.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC16A-SED-WET-0-6-01-043020**
**Sample Collection:**
**30-Apr-2020 11:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-27 |
| **Matrix:** | SOLID | **Sample Size:** | 5.09 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:28:16 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 42.2 |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.314 (L) | |
| **PFPeA** | U | | 0.157 (L) | |
| **PFHxA** | J | 0.105 | 0.0785 (L) | 4:57 |
| **PFHpA** | U | | 0.0785 (L) | |
| **PFOA** | | 0.359 | 0.0785 (L) | |
| **PFNA** | U | | 0.0785 (L) | |
| **PFDA** | U | | 0.0785 (L) | |
| **PFUnA** | U | | 0.0785 (L) | |
| **PFDoA** | U | | 0.0785 (L) | |
| **PFTrDA** | U | | 0.0785 (L) | |
| **PFTeDA** | U | | 0.0785 (L) | |
| **PFBS** | U | | 0.0785 (L) | |
| **PFPeS** | U | | 0.0785 (L) | |
| **PFHxS** | U | | 0.0785 (L) | |
| **PFHpS** | U | | 0.0785 (L) | |
| **PFOS** | | 0.792 | 0.0785 (L) | |
| **PFNS** | U | | 0.0785 (L) | |
| **PFDS** | U | | 0.0785 (L) | |
| **PFDoS** | U | | 0.0785 (L) | |
| **4:2 FTS** | U | | 0.314 (L) | |
| **6:2 FTS** | U | | 0.283 (L) | |
| **8:2 FTS** | U | | 0.314 (L) | |
| **PFOSA** | U | | 0.0785 (L) | |
| **N-MeFOSA** | U | | 0.0903 (L) | |
| **N-EtFOSA** | U | | 0.196 (L) | |
| **MeFOSAA** | U | | 0.0785 (L) | |
| **EtFOSAA** | U | | 0.0785 (L) | |
| **N-MeFOSE** | U | | 0.785 (L) | |
| **N-EtFOSE** | U | | 0.589 (L) | |
| **HFPO-DA** | U | | 0.298 (L) | |
| **ADONA** | U | | 0.314 (L) | |
| **9Cl-PF3ONS** | U | | 0.314 (L) | |
| **11Cl-PF3OUdS** | U | | 0.314 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-27_Form1A_FC0L_169S25_SJ2749318.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC16A-SED-WET-0-6-01-043020**
**Sample Collection:**
**30-Apr-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-27 |
| **Matrix:** | SOLID | **Sample Size:** | 5.09 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:28:16 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 42.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.5 | 91.3 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.85 | 98.5 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 8.84 | 88.4 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.98 | 89.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.71 | 94.2 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.14 | 103 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.16 | 103 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.04 | 101 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.46 | 69.1 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.20 | 92.0 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.26 | 92.6 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.43 | 94.3 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.9 | 99.7 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.5 | 77.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.7 | 93.3 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.28 | 92.8 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 3.86 | 38.6 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.15 | 31.5 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 24.7 | 123 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 26.2 | 131 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 60.2 | 60.2 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 58.7 | 58.7 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 35.9 | 89.7 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-27_Form2_FC0L_169S25_SJ2749318.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC16A-SED-WET-0-6-02-043020**
**Sample Collection:**
**30-Apr-2020 11:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-28 |
| **Matrix:** | SOLID | **Sample Size:** | 5.02 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:41:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 44.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.319 (L) | |
| **PFPeA** | U | | 0.159 (L) | |
| **PFHxA** | U | | 0.0797 (L) | |
| **PFHpA** | U | | 0.0797 (L) | |
| **PFOA** | J | 0.107 | 0.0797 (L) | |
| **PFNA** | U | | 0.0797 (L) | |
| **PFDA** | U | | 0.0797 (L) | |
| **PFUnA** | U | | 0.0797 (L) | |
| **PFDoA** | U | | 0.0797 (L) | |
| **PFTrDA** | U | | 0.0797 (L) | |
| **PFTeDA** | U | | 0.0797 (L) | |
| **PFBS** | U | | 0.0797 (L) | |
| **PFPeS** | U | | 0.0797 (L) | |
| **PFHxS** | U | | 0.0797 (L) | |
| **PFHpS** | U | | 0.0797 (L) | |
| **PFOS** | | 0.623 | 0.0797 (L) | |
| **PFNS** | U | | 0.0797 (L) | |
| **PFDS** | U | | 0.0797 (L) | |
| **PFDoS** | U | | 0.0797 (L) | |
| **4:2 FTS** | U | | 0.319 (L) | |
| **6:2 FTS** | U | | 0.287 (L) | |
| **8:2 FTS** | U | | 0.319 (L) | |
| **PFOSA** | U | | 0.0797 (L) | |
| **N-MeFOSA** | U | | 0.0917 (L) | |
| **N-EtFOSA** | U | | 0.199 (L) | |
| **MeFOSAA** | J | 0.107 | 0.0797 (L) | |
| **EtFOSAA** | J | 0.096 | 0.0797 (L) | |
| **N-MeFOSE** | U | | 0.797 (L) | |
| **N-EtFOSE** | U | | 0.598 (L) | |
| **HFPO-DA** | U | | 0.303 (L) | |
| **ADONA** | U | | 0.319 (L) | |
| **9Cl-PF3ONS** | U | | 0.319 (L) | |
| **11Cl-PF3OUdS** | U | | 0.319 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-28_Form1A_FC0L_169S26_SJ2749319.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC16A-SED-WET-0-6-02-043020**
**Sample Collection:**
**30-Apr-2020 11:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-28 |
| **Matrix:** | SOLID | **Sample Size:** | 5.02 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:41:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 44.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 39.0 | 97.5 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 22.2 | 111 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.9 | 109 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.91 | 99.1 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.78 | 97.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.87 | 97.4 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.12 | 102 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.47 | 109 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.19 | 104 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.82 | 76.4 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.5 | 105 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 10.3 | 103 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.4 | 104 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 22.5 | 113 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.6 | 78.0 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 20.0 | 99.8 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.84 | 98.4 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 3.29 | 32.9 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 2.46 | 24.6 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 27.1 | 135 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 27.6 | 138 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 52.4 | 52.4 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 50.4 | 50.4 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 38.9 | 97.2 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-28_Form2_FC0L_169S26_SJ2749319.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC16A-SED-WET-6-12-01-043020**
**Sample Collection:**
**30-Apr-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-29 |
| **Matrix:** | SOLID | **Sample Size:** | 5.06 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:54:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 36.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.330 | 0.317 (L) | 1:57 |
| **PFPeA** | U | | 0.158 (L) | |
| **PFHxA** | U | | 0.0791 (L) | |
| **PFHpA** | U | | 0.0791 (L) | |
| **PFOA** | J | 0.142 | 0.0791 (L) | |
| **PFNA** | U | | 0.0791 (L) | |
| **PFDA** | U | | 0.0791 (L) | |
| **PFUnA** | U | | 0.0791 (L) | |
| **PFDoA** | U | | 0.0791 (L) | |
| **PFTrDA** | U | | 0.0791 (L) | |
| **PFTeDA** | U | | 0.0791 (L) | |
| **PFBS** | U | | 0.0791 (L) | |
| **PFPeS** | U | | 0.0791 (L) | |
| **PFHxS** | U | | 0.0791 (L) | |
| **PFHpS** | U | | 0.0791 (L) | |
| **PFOS** | | 0.683 | 0.0791 (L) | |
| **PFNS** | U | | 0.0791 (L) | |
| **PFDS** | U | | 0.0791 (L) | |
| **PFDoS** | U | | 0.0791 (L) | |
| **4:2 FTS** | U | | 0.317 (L) | |
| **6:2 FTS** | J | 0.385 | 0.285 (L) | 5:52 |
| **8:2 FTS** | U | | 0.317 (L) | |
| **PFOSA** | U | | 0.0791 (L) | |
| **N-MeFOSA** | U | | 0.0910 (L) | |
| **N-EtFOSA** | U | | 0.198 (L) | |
| **MeFOSAA** | U | | 0.0791 (L) | |
| **EtFOSAA** | U | | 0.0791 (L) | |
| **N-MeFOSE** | U | | 0.791 (L) | |
| **N-EtFOSE** | U | | 0.593 (L) | |
| **HFPO-DA** | U | | 0.301 (L) | |
| **ADONA** | U | | 0.317 (L) | |
| **9Cl-PF3ONS** | U | | 0.317 (L) | |
| **11Cl-PF3OUdS** | U | | 0.317 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-29_Form1A_FC0L_169S27_SJ2749320.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC16A-SED-WET-6-12-01-043020**
**Sample Collection: 30-Apr-2020 12:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-29 |
| **Matrix:** | SOLID | **Sample Size:** | 5.06 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 22:54:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 36.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.0 | 90.0 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 99.1 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.72 | 97.2 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.16 | 91.6 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.71 | 87.1 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.50 | 90.0 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.85 | 96.9 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.69 | 93.8 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.66 | 93.3 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.73 | 74.7 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.53 | 95.3 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 8.95 | 89.5 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.64 | 96.4 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.7 | 98.5 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.0 | 74.8 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.6 | 87.9 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.99 | 99.9 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 5.67 | 56.7 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.80 | 48.0 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 25.6 | 128 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.4 | 112 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 85.4 | 85.4 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 86.7 | 86.7 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 36.4 | 90.9 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-29_Form2_FC0L_169S27_SJ2749320.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-30 |
| **Matrix:** | SOLID | **Sample Size:** | 5.06 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:07:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 23.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.387 | 0.316 (L) | 1:57 |
| **PFPeA** | U | | 0.158 (L) | |
| **PFHxA** | U | | 0.0791 (L) | |
| **PFHpA** | U | | 0.0791 (L) | |
| **PFOA** | J | 0.122 | 0.0791 (L) | |
| **PFNA** | U | | 0.0791 (L) | |
| **PFDA** | U | | 0.0791 (L) | |
| **PFUnA** | U | | 0.0791 (L) | |
| **PFDoA** | U | | 0.0791 (L) | |
| **PFTrDA** | U | | 0.0791 (L) | |
| **PFTeDA** | U | | 0.0791 (L) | |
| **PFBS** | U | | 0.0791 (L) | |
| **PFPeS** | U | | 0.0791 (L) | |
| **PFHxS** | U | | 0.0791 (L) | |
| **PFHpS** | U | | 0.0791 (L) | |
| **PFOS** | | 1.23 | 0.0791 (L) | |
| **PFNS** | U | | 0.0791 (L) | |
| **PFDS** | U | | 0.0791 (L) | |
| **PFDoS** | U | | 0.0791 (L) | |
| **4:2 FTS** | U | | 0.316 (L) | |
| **6:2 FTS** | U | | 0.285 (L) | |
| **8:2 FTS** | U | | 0.316 (L) | |
| **PFOSA** | U | | 0.0791 (L) | |
| **N-MeFOSA** | U | | 0.0910 (L) | |
| **N-EtFOSA** | U | | 0.198 (L) | |
| **MeFOSAA** | U | | 0.0791 (L) | |
| **EtFOSAA** | U | | 0.0791 (L) | |
| **N-MeFOSE** | U | | 0.791 (L) | |
| **N-EtFOSE** | U | | 0.593 (L) | |
| **HFPO-DA** | U | | 0.301 (L) | |
| **ADONA** | U | | 0.316 (L) | |
| **9Cl-PF3ONS** | U | | 0.316 (L) | |
| **11Cl-PF3OUdS** | U | | 0.316 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-30_Form1A_FC0L_169S28_SJ2749321.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-30 |
| **Matrix:** | SOLID | **Sample Size:** | 5.06 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:07:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 23.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.2 | 92.9 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 99.0 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.3 | 103 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.80 | 98.0 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.31 | 93.1 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.61 | 92.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.74 | 94.8 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.70 | 93.9 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.63 | 92.6 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.38 | 87.6 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.5 | 105 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.57 | 95.7 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.5 | 105 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.6 | 98.0 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.2 | 86.1 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.8 | 94.2 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.79 | 97.9 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.25 | 62.5 | 10:05 |
| **D5-N-EtFOSA** | | 10.0 | 5.56 | 55.6 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.9 | 109 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 23.0 | 115 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 96.2 | 96.2 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 99.1 | 99.1 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 38.1 | 95.2 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-30_Form2_FC0L_169S28_SJ2749321.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-02-042720**
**Sample Collection:**
**27-Apr-2020 14:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-31 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:20:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 22.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.395 | 0.320 (L) | 1:57 |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0801 (L) | |
| **PFHpA** | U | | 0.0801 (L) | |
| **PFOA** | J | 0.113 | 0.0801 (L) | |
| **PFNA** | U | | 0.0801 (L) | |
| **PFDA** | U | | 0.0801 (L) | |
| **PFUnA** | U | | 0.0801 (L) | |
| **PFDoA** | U | | 0.0801 (L) | |
| **PFTrDA** | U | | 0.0801 (L) | |
| **PFTeDA** | U | | 0.0801 (L) | |
| **PFBS** | U | | 0.0801 (L) | |
| **PFPeS** | U | | 0.0801 (L) | |
| **PFHxS** | U | | 0.0801 (L) | |
| **PFHpS** | U | | 0.0801 (L) | |
| **PFOS** | | 1.30 | 0.0801 (L) | |
| **PFNS** | U | | 0.0801 (L) | |
| **PFDS** | U | | 0.0801 (L) | |
| **PFDoS** | U | | 0.0801 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0801 (L) | |
| **N-MeFOSA** | U | | 0.0921 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0801 (L) | |
| **EtFOSAA** | U | | 0.0801 (L) | |
| **N-MeFOSE** | U | | 0.801 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-31_Form1A_FC0L_169S29_SJ2749322.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-02-042720**
**Sample Collection:**
**27-Apr-2020 14:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-31 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:20:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 22.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.9 | 94.7 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.3 | 103 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 10.3 | 103 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.75 | 97.5 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.70 | 93.9 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.31 | 106 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.94 | 98.8 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.99 | 99.8 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.49 | 89.7 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.94 | 99.4 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.42 | 94.2 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.2 | 96.1 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.6 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 18.2 | 91.1 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.43 | 94.3 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.56 | 65.6 | 10:05 |
| **D5-N-EtFOSA** | | 10.0 | 5.58 | 55.8 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.3 | 117 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 26.7 | 133 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 95.5 | 95.5 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 96.2 | 96.2 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 39.1 | 97.7 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-31_Form2_FC0L_169S29_SJ2749322.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720**
**Sample Collection:**
**27-Apr-2020 14:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-32 (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.06 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:17:40 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 22.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.360 | 0.316 (L) | 1:57 |
| **PFPeA** | U | | 0.158 (L) | |
| **PFHxA** | U | | 0.0791 (L) | |
| **PFHpA** | U | | 0.0791 (L) | |
| **PFOA** | J | 0.126 | 0.0791 (L) | |
| **PFNA** | U | | 0.0791 (L) | |
| **PFDA** | U | | 0.0791 (L) | |
| **PFUnA** | U | | 0.0791 (L) | |
| **PFDoA** | U | | 0.0791 (L) | |
| **PFTrDA** | U | | 0.0791 (L) | |
| **PFTeDA** | U | | 0.0791 (L) | |
| **PFBS** | U | | 0.0791 (L) | |
| **PFPeS** | U | | 0.0791 (L) | |
| **PFHxS** | U | | 0.0791 (L) | |
| **PFHpS** | U | | 0.0791 (L) | |
| **PFOS** | | 1.34 | 0.0791 (L) | |
| **PFNS** | U | | 0.0791 (L) | |
| **PFDS** | U | | 0.0791 (L) | |
| **PFDoS** | U | | 0.0791 (L) | |
| **4:2 FTS** | U | | 0.316 (L) | |
| **6:2 FTS** | U | | 0.285 (L) | |
| **8:2 FTS** | U | | 0.316 (L) | |
| **PFOSA** | U | | 0.0791 (L) | |
| **N-MeFOSA** | U | | 0.0910 (L) | |
| **N-EtFOSA** | U | | 0.198 (L) | |
| **MeFOSAA** | U | | 0.0791 (L) | |
| **EtFOSAA** | U | | 0.0791 (L) | |
| **N-MeFOSE** | U | | 0.791 (L) | |
| **N-EtFOSE** | U | | 0.593 (L) | |
| **HFPO-DA** | U | | 0.301 (L) | |
| **ADONA** | U | | 0.316 (L) | |
| **9Cl-PF3ONS** | U | | 0.316 (L) | |
| **11Cl-PF3OUdS** | U | | 0.316 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-32_Form1A_FC0L_169S30_SJ2749323.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720**
**Sample Collection:**
**27-Apr-2020 14:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-32 (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.06 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:17:40 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 22.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.4 | 93.4 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 19.9 | 99.4 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.76 | 97.6 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.00 | 90.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.64 | 92.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.83 | 96.5 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.82 | 96.5 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.75 | 94.9 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.32 | 86.4 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.56 | 95.6 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.5 | 105 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 20.8 | 104 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.9 | 89.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.6 | 97.9 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 8.93 | 89.3 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.31 | 63.1 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.54 | 55.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 20.7 | 103 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.9 | 115 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 94.1 | 94.1 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 95.8 | 95.8 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 38.1 | 95.3 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-32_Form2_FC0L_169S30_SJ2749323.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP16-SED-6-18-01-042720**
**Sample Collection:**
**27-Apr-2020 14:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-33 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:33:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 20.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.318 (L) | |
| **PFPeA** | U | | 0.159 (L) | |
| **PFHxA** | U | | 0.0796 (L) | |
| **PFHpA** | U | | 0.0796 (L) | |
| **PFOA** | U | | 0.0796 (L) | |
| **PFNA** | U | | 0.0796 (L) | |
| **PFDA** | U | | 0.0796 (L) | |
| **PFUnA** | U | | 0.0796 (L) | |
| **PFDoA** | U | | 0.0796 (L) | |
| **PFTrDA** | U | | 0.0796 (L) | |
| **PFTeDA** | U | | 0.0796 (L) | |
| **PFBS** | U | | 0.0796 (L) | |
| **PFPeS** | U | | 0.0796 (L) | |
| **PFHxS** | U | | 0.0796 (L) | |
| **PFHpS** | U | | 0.0796 (L) | |
| **PFOS** | | 0.301 | 0.0796 (L) | |
| **PFNS** | U | | 0.0796 (L) | |
| **PFDS** | U | | 0.0796 (L) | |
| **PFDoS** | U | | 0.0796 (L) | |
| **4:2 FTS** | U | | 0.318 (L) | |
| **6:2 FTS** | U | | 0.286 (L) | |
| **8:2 FTS** | U | | 0.318 (L) | |
| **PFOSA** | U | | 0.0796 (L) | |
| **N-MeFOSA** | U | | 0.0915 (L) | |
| **N-EtFOSA** | U | | 0.199 (L) | |
| **MeFOSAA** | U | | 0.0796 (L) | |
| **EtFOSAA** | U | | 0.0796 (L) | |
| **N-MeFOSE** | U | | 0.795 (L) | |
| **N-EtFOSE** | U | | 0.597 (L) | |
| **HFPO-DA** | U | | 0.302 (L) | |
| **ADONA** | U | | 0.318 (L) | |
| **9Cl-PF3ONS** | U | | 0.318 (L) | |
| **11Cl-PF3OUdS** | U | | 0.318 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-33_Form1A_FC0L_169S31_SJ2749324.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-6-18-01-042720**
**Sample Collection:**
**27-Apr-2020 14:35**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-33 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:33:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 20.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.5 | 93.7 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.3 | 107 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.5 | 105 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.75 | 97.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.16 | 91.6 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.68 | 93.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.90 | 98.0 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.03 | 101 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.85 | 97.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.34 | 86.9 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.33 | 93.3 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 8.98 | 89.8 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.84 | 98.4 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.9 | 99.6 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.7 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.5 | 97.6 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 8.89 | 88.9 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.32 | 73.2 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.30 | 63.0 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 20.4 | 102 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 20.4 | 102 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 97.0 | 97.0 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 98.3 | 98.3 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.7 | 94.2 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-33_Form2_FC0L_169S31_SJ2749324.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-30-36-01-042720**
**Sample Collection:**
**27-Apr-2020 14:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-34 |
| **Matrix:** | SOLID | **Sample Size:** | 5.04 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:46:30 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 19.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.317 (L) | |
| **PFPeA** | U | | 0.159 (L) | |
| **PFHxA** | U | | 0.0793 (L) | |
| **PFHpA** | U | | 0.0793 (L) | |
| **PFOA** | U | | 0.0793 (L) | |
| **PFNA** | U | | 0.0793 (L) | |
| **PFDA** | U | | 0.0793 (L) | |
| **PFUnA** | U | | 0.0793 (L) | |
| **PFDoA** | U | | 0.0793 (L) | |
| **PFTrDA** | U | | 0.0793 (L) | |
| **PFTeDA** | U | | 0.0793 (L) | |
| **PFBS** | U | | 0.0793 (L) | |
| **PFPeS** | U | | 0.0793 (L) | |
| **PFHxS** | U | | 0.0793 (L) | |
| **PFHpS** | U | | 0.0793 (L) | |
| **PFOS** | | 0.376 | 0.0793 (L) | |
| **PFNS** | U | | 0.0793 (L) | |
| **PFDS** | U | | 0.0793 (L) | |
| **PFDoS** | U | | 0.0793 (L) | |
| **4:2 FTS** | U | | 0.317 (L) | |
| **6:2 FTS** | U | | 0.285 (L) | |
| **8:2 FTS** | U | | 0.317 (L) | |
| **PFOSA** | U | | 0.0793 (L) | |
| **N-MeFOSA** | U | | 0.0912 (L) | |
| **N-EtFOSA** | U | | 0.198 (L) | |
| **MeFOSAA** | U | | 0.0793 (L) | |
| **EtFOSAA** | U | | 0.0793 (L) | |
| **N-MeFOSE** | U | | 0.793 (L) | |
| **N-EtFOSE** | U | | 0.595 (L) | |
| **HFPO-DA** | U | | 0.301 (L) | |
| **ADONA** | U | | 0.317 (L) | |
| **9Cl-PF3ONS** | U | | 0.317 (L) | |
| **11Cl-PF3OUdS** | U | | 0.317 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-34_Form1A_FC0L_169S32_SJ2749325.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-30-36-01-042720**
**Sample Collection:**
**27-Apr-2020 14:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-34 |
| **Matrix:** | SOLID | **Sample Size:** | 5.04 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:46:30 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 19.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.8 | 94.6 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 21.2 | 106 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.3 | 103 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 10.2 | 102 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.45 | 94.5 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.67 | 93.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.25 | 105 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.12 | 102 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.90 | 98.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.18 | 83.7 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.0 | 100 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.71 | 97.1 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.7 | 107 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 22.1 | 110 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 19.2 | 95.9 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 20.6 | 103 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 8.81 | 88.1 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.43 | 64.3 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.11 | 61.1 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.2 | 106 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.0 | 110 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 97.3 | 97.3 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 98.4 | 98.4 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 39.3 | 98.2 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-34_Form2_FC0L_169S32_SJ2749325.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-WET-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 09:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-35 |
| **Matrix:** | SOLID | **Sample Size:** | 5.01 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:59:27 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 27.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.319 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0798 (L) | |
| **PFHpA** | U | | 0.0798 (L) | |
| **PFOA** | J | 0.114 | 0.0798 (L) | |
| **PFNA** | U | | 0.0798 (L) | |
| **PFDA** | U | | 0.0798 (L) | |
| **PFUnA** | U | | 0.0798 (L) | |
| **PFDoA** | U | | 0.0798 (L) | |
| **PFTrDA** | U | | 0.0798 (L) | |
| **PFTeDA** | U | | 0.0798 (L) | |
| **PFBS** | U | | 0.0798 (L) | |
| **PFPeS** | U | | 0.0798 (L) | |
| **PFHxS** | U | | 0.0798 (L) | |
| **PFHpS** | U | | 0.0798 (L) | |
| **PFOS** | | 4.44 | 0.0798 (L) | |
| **PFNS** | U | | 0.0798 (L) | |
| **PFDS** | U | | 0.0798 (L) | |
| **PFDoS** | U | | 0.0798 (L) | |
| **4:2 FTS** | U | | 0.319 (L) | |
| **6:2 FTS** | U | | 0.287 (L) | |
| **8:2 FTS** | U | | 0.319 (L) | |
| **PFOSA** | U | | 0.0798 (L) | |
| **N-MeFOSA** | U | | 0.0918 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0798 (L) | |
| **EtFOSAA** | U | | 0.0798 (L) | |
| **N-MeFOSE** | U | | 0.798 (L) | |
| **N-EtFOSE** | U | | 0.599 (L) | |
| **HFPO-DA** | U | | 0.303 (L) | |
| **ADONA** | U | | 0.319 (L) | |
| **9Cl-PF3ONS** | U | | 0.319 (L) | |
| **11Cl-PF3OUdS** | U | | 0.319 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-35_Form1A_FC0L_169S33_SJ2749326.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-WET-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 09:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-35 |
| **Matrix:** | SOLID | **Sample Size:** | 5.01 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 23:59:27 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 27.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.0 | 95.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.2 | 106 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.4 | 104 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.67 | 96.7 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.50 | 95.0 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.64 | 92.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.23 | 105 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.37 | 107 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.33 | 107 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.96 | 79.2 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.94 | 99.4 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.59 | 95.9 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.8 | 108 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 17.9 | 89.4 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.2 | 81.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.6 | 88.1 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.80 | 98.0 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 5.45 | 54.5 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.32 | 43.2 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 24.0 | 120 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 26.1 | 130 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 90.8 | 90.8 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 86.8 | 86.8 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 39.2 | 98.0 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-35_Form2_FC0L_169S33_SJ2749326.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-WET-6-12-01-042720**
**Sample Collection:**
**27-Apr-2020 09:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-36 |
| **Matrix:** | SOLID | **Sample Size:** | 5.14 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:12:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 18.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.311 (L) | |
| **PFPeA** | U | | 0.156 (L) | |
| **PFHxA** | U | | 0.0778 (L) | |
| **PFHpA** | U | | 0.0778 (L) | |
| **PFOA** | J | 0.109 | 0.0778 (L) | |
| **PFNA** | U | | 0.0778 (L) | |
| **PFDA** | U | | 0.0778 (L) | |
| **PFUnA** | U | | 0.0778 (L) | |
| **PFDoA** | U | | 0.0778 (L) | |
| **PFTrDA** | U | | 0.0778 (L) | |
| **PFTeDA** | U | | 0.0778 (L) | |
| **PFBS** | U | | 0.0778 (L) | |
| **PFPeS** | U | | 0.0778 (L) | |
| **PFHxS** | U | | 0.0778 (L) | |
| **PFHpS** | U | | 0.0778 (L) | |
| **PFOS** | | 3.00 | 0.0778 (L) | |
| **PFNS** | U | | 0.0778 (L) | |
| **PFDS** | U | | 0.0778 (L) | |
| **PFDoS** | U | | 0.0778 (L) | |
| **4:2 FTS** | U | | 0.311 (L) | |
| **6:2 FTS** | U | | 0.280 (L) | |
| **8:2 FTS** | U | | 0.311 (L) | |
| **PFOSA** | U | | 0.0778 (L) | |
| **N-MeFOSA** | U | | 0.0895 (L) | |
| **N-EtFOSA** | U | | 0.194 (L) | |
| **MeFOSAA** | U | | 0.0778 (L) | |
| **EtFOSAA** | U | | 0.0778 (L) | |
| **N-MeFOSE** | U | | 0.778 (L) | |
| **N-EtFOSE** | U | | 0.583 (L) | |
| **HFPO-DA** | U | | 0.296 (L) | |
| **ADONA** | U | | 0.311 (L) | |
| **9Cl-PF3ONS** | U | | 0.311 (L) | |
| **11Cl-PF3OUdS** | U | | 0.311 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-36_Form1A_FC0L_169S34_SJ2749327.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-WET-6-12-01-042720**
**Sample Collection:**
**27-Apr-2020 09:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-36 |
| **Matrix:** | SOLID | **Sample Size:** | 5.14 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:12:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 18.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.6 | 91.6 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.37 | 93.7 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 8.91 | 89.1 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.87 | 88.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.52 | 90.4 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.86 | 97.2 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.10 | 102 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.05 | 101 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 3.90 | 78.1 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.54 | 95.4 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.44 | 94.4 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.80 | 98.0 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 17.9 | 89.5 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.3 | 81.6 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.6 | 88.2 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.12 | 91.2 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.50 | 65.0 | 10:05 |
| **D5-N-EtFOSA** | | 10.0 | 5.44 | 54.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.4 | 107 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 22.6 | 113 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 97.6 | 97.6 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 97.0 | 97.0 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.1 | 92.7 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-36_Form2_FC0L_169S34_SJ2749327.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-24-30-01-042720**
**Sample Collection:**
**27-Apr-2020 10:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-37 |
| **Matrix:** | SOLID | **Sample Size:** | 5.18 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:25:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 17.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.331 | 0.309 (L) | 1:57 |
| **PFPeA** | U | | 0.154 (L) | |
| **PFHxA** | U | | 0.0772 (L) | |
| **PFHpA** | U | | 0.0772 (L) | |
| **PFOA** | J | 0.104 | 0.0772 (L) | |
| **PFNA** | U | | 0.0772 (L) | |
| **PFDA** | U | | 0.0772 (L) | |
| **PFUnA** | U | | 0.0772 (L) | |
| **PFDoA** | U | | 0.0772 (L) | |
| **PFTrDA** | U | | 0.0772 (L) | |
| **PFTeDA** | U | | 0.0772 (L) | |
| **PFBS** | U | | 0.0772 (L) | |
| **PFPeS** | U | | 0.0772 (L) | |
| **PFHxS** | U | | 0.0772 (L) | |
| **PFHpS** | U | | 0.0772 (L) | |
| **PFOS** | | 3.10 | 0.0772 (L) | |
| **PFNS** | U | | 0.0772 (L) | |
| **PFDS** | U | | 0.0772 (L) | |
| **PFDoS** | U | | 0.0772 (L) | |
| **4:2 FTS** | U | | 0.309 (L) | |
| **6:2 FTS** | U | | 0.278 (L) | |
| **8:2 FTS** | U | | 0.309 (L) | |
| **PFOSA** | U | | 0.0772 (L) | |
| **N-MeFOSA** | U | | 0.0888 (L) | |
| **N-EtFOSA** | U | | 0.193 (L) | |
| **MeFOSAA** | U | | 0.0772 (L) | |
| **EtFOSAA** | U | | 0.0772 (L) | |
| **N-MeFOSE** | U | | 0.772 (L) | |
| **N-EtFOSE** | U | | 0.579 (L) | |
| **HFPO-DA** | U | | 0.293 (L) | |
| **ADONA** | U | | 0.309 (L) | |
| **9Cl-PF3ONS** | U | | 0.309 (L) | |
| **11Cl-PF3OUdS** | U | | 0.309 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-37_Form1A_FC0L_169S35_SJ2749328.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-24-30-01-042720**
**Sample Collection:**
**27-Apr-2020 10:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-37 |
| **Matrix:** | SOLID | **Sample Size:** | 5.18 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:25:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 17.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.9 | 92.2 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 21.1 | 106 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.3 | 103 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.19 | 91.9 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.05 | 90.5 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.6 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.48 | 110 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.51 | 110 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.42 | 108 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.45 | 89.0 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.2 | 102 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.25 | 92.5 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.0 | 94.8 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.6 | 82.9 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 88.9 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.06 | 90.6 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.69 | 66.9 | 10:05 |
| **D5-N-EtFOSA** | | 10.0 | 5.77 | 57.7 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.0 | 105 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 21.4 | 107 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 97.9 | 97.9 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 100 | 100 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 38.2 | 95.4 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-37_Form2_FC0L_169S35_SJ2749328.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-36-42-01-042720**
**Sample Collection:**
**27-Apr-2020 10:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-38 |
| **Matrix:** | SOLID | **Sample Size:** | 5.26 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:38:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 22.7 |

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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.304 (L) | |
| **PFPeA** | U | | 0.152 (L) | |
| **PFHxA** | U | | 0.0761 (L) | |
| **PFHpA** | U | | 0.0761 (L) | |
| **PFOA** | J | 0.093 | 0.0761 (L) | |
| **PFNA** | U | | 0.0761 (L) | |
| **PFDA** | U | | 0.0761 (L) | |
| **PFUnA** | U | | 0.0761 (L) | |
| **PFDoA** | U | | 0.0761 (L) | |
| **PFTrDA** | U | | 0.0761 (L) | |
| **PFTeDA** | U | | 0.0761 (L) | |
| **PFBS** | U | | 0.0761 (L) | |
| **PFPeS** | U | | 0.0761 (L) | |
| **PFHxS** | U | | 0.0761 (L) | |
| **PFHpS** | U | | 0.0761 (L) | |
| **PFOS** | | 2.67 | 0.0761 (L) | |
| **PFNS** | U | | 0.0761 (L) | |
| **PFDS** | U | | 0.0761 (L) | |
| **PFDoS** | U | | 0.0761 (L) | |
| **4:2 FTS** | U | | 0.304 (L) | |
| **6:2 FTS** | U | | 0.274 (L) | |
| **8:2 FTS** | U | | 0.304 (L) | |
| **PFOSA** | U | | 0.0761 (L) | |
| **N-MeFOSA** | U | | 0.0875 (L) | |
| **N-EtFOSA** | U | | 0.190 (L) | |
| **MeFOSAA** | U | | 0.0761 (L) | |
| **EtFOSAA** | U | | 0.0761 (L) | |
| **N-MeFOSE** | U | | 0.761 (L) | |
| **N-EtFOSE** | U | | 0.571 (L) | |
| **HFPO-DA** | U | | 0.289 (L) | |
| **ADONA** | U | | 0.304 (L) | |
| **9Cl-PF3ONS** | U | | 0.304 (L) | |
| **11Cl-PF3OUdS** | U | | 0.304 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-38_Form1A_FC0L_169S36_SJ2749329.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-SED-36-42-01-042720**
**Sample Collection:**
**27-Apr-2020 10:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-38 |
| **Matrix:** | SOLID | **Sample Size:** | 5.26 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:38:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 22.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 39.1 | 97.7 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.4 | 107 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.5 | 105 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.69 | 96.9 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.64 | 96.4 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.86 | 97.2 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.65 | 113 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.35 | 107 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.23 | 105 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.36 | 87.3 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.5 | 105 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.96 | 99.6 | 6:18 |
| **13C8-PFOS** | | 10.0 | 11.4 | 114 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 21.3 | 106 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.1 | 85.4 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.1 | 95.5 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 10.5 | 105 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.43 | 64.3 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.49 | 54.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 25.0 | 125 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 25.7 | 128 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 103 | 103 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 107 | 107 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 38.1 | 95.4 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-38_Form2_FC0L_169S36_SJ2749329.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP23-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 12:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-39 |
| **Matrix:** | SOLID | **Sample Size:** | 5.05 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:51:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 13.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.317 (L) | |
| **PFPeA** | U | | 0.158 (L) | |
| **PFHxA** | U | | 0.0792 (L) | |
| **PFHpA** | U | | 0.0792 (L) | |
| **PFOA** | U | | 0.0792 (L) | |
| **PFNA** | U | | 0.0792 (L) | |
| **PFDA** | U | | 0.0792 (L) | |
| **PFUnA** | U | | 0.0792 (L) | |
| **PFDoA** | U | | 0.0792 (L) | |
| **PFTrDA** | U | | 0.0792 (L) | |
| **PFTeDA** | U | | 0.0792 (L) | |
| **PFBS** | U | | 0.0792 (L) | |
| **PFPeS** | U | | 0.0792 (L) | |
| **PFHxS** | U | | 0.0792 (L) | |
| **PFHpS** | U | | 0.0792 (L) | |
| **PFOS** | | 0.812 | 0.0792 (L) | |
| **PFNS** | U | | 0.0792 (L) | |
| **PFDS** | U | | 0.0792 (L) | |
| **PFDoS** | U | | 0.0792 (L) | |
| **4:2 FTS** | U | | 0.317 (L) | |
| **6:2 FTS** | U | | 0.285 (L) | |
| **8:2 FTS** | U | | 0.317 (L) | |
| **PFOSA** | U | | 0.0792 (L) | |
| **N-MeFOSA** | U | | 0.0911 (L) | |
| **N-EtFOSA** | U | | 0.198 (L) | |
| **MeFOSAA** | U | | 0.0792 (L) | |
| **EtFOSAA** | U | | 0.0792 (L) | |
| **N-MeFOSE** | U | | 0.792 (L) | |
| **N-EtFOSE** | U | | 0.594 (L) | |
| **HFPO-DA** | U | | 0.301 (L) | |
| **ADONA** | U | | 0.317 (L) | |
| **9Cl-PF3ONS** | U | | 0.317 (L) | |
| **11Cl-PF3OUdS** | U | | 0.317 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-39_Form1A_FC0L_169S37_SJ2749330.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP23-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 12:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-39 |
| **Matrix:** | SOLID | **Sample Size:** | 5.05 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 00:51:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 13.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.6 | 96.5 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 10.3 | 103 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.54 | 95.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.83 | 96.7 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.51 | 110 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.11 | 102 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.48 | 110 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.60 | 91.9 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.9 | 109 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 10.4 | 104 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.3 | 103 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 22.4 | 112 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 19.7 | 98.3 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.44 | 94.4 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.27 | 82.7 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.65 | 76.5 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.2 | 106 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.5 | 113 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 105 | 105 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 110 | 110 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 94.0 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-39_Form2_FC0L_169S37_SJ2749330.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP24-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 11:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-40 |
| **Matrix:** | SOLID | **Sample Size:** | 4.93 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:04:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 42.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 3.61 | 0.324 (L) | 1:57 |
| **PFPeA** | U | | 0.162 (L) | |
| **PFHxA** | U | | 0.0811 (L) | |
| **PFHpA** | U | | 0.0811 (L) | |
| **PFOA** | J | 0.108 | 0.0811 (L) | |
| **PFNA** | U | | 0.0811 (L) | |
| **PFDA** | U | | 0.0811 (L) | |
| **PFUnA** | U | | 0.0811 (L) | |
| **PFDoA** | U | | 0.0811 (L) | |
| **PFTrDA** | U | | 0.0811 (L) | |
| **PFTeDA** | U | | 0.0811 (L) | |
| **PFBS** | U | | 0.0811 (L) | |
| **PFPeS** | U | | 0.0811 (L) | |
| **PFHxS** | U | | 0.0811 (L) | |
| **PFHpS** | U | | 0.0811 (L) | |
| **PFOS** | | 0.165 | 0.0811 (L) | |
| **PFNS** | U | | 0.0811 (L) | |
| **PFDS** | U | | 0.0811 (L) | |
| **PFDoS** | U | | 0.0811 (L) | |
| **4:2 FTS** | U | | 0.324 (L) | |
| **6:2 FTS** | U | | 0.292 (L) | |
| **8:2 FTS** | U | | 0.324 (L) | |
| **PFOSA** | U | | 0.0811 (L) | |
| **N-MeFOSA** | U | | 0.0933 (L) | |
| **N-EtFOSA** | U | | 0.203 (L) | |
| **MeFOSAA** | U | | 0.0811 (L) | |
| **EtFOSAA** | U | | 0.0811 (L) | |
| **N-MeFOSE** | U | | 0.811 (L) | |
| **N-EtFOSE** | U | | 0.608 (L) | |
| **HFPO-DA** | U | | 0.308 (L) | |
| **ADONA** | U | | 0.324 (L) | |
| **9Cl-PF3ONS** | U | | 0.324 (L) | |
| **11Cl-PF3OUdS** | U | | 0.324 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-40_Form1A_FC0L_169S38_SJ2749331.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP24-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-40 |
| **Matrix:** | SOLID | **Sample Size:** | 4.93 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:04:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 42.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.0 | 92.5 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 97.9 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.87 | 98.7 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 10.3 | 103 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.53 | 95.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.34 | 86.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.26 | 105 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.15 | 103 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.24 | 105 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.74 | 74.7 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.37 | 93.7 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.94 | 99.4 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.9 | 99.3 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.6 | 77.8 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 19.7 | 98.5 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.78 | 97.8 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 3.44 | 34.4 | 10:05 |
| **D5-N-EtFOSA** | V | 10.0 | 2.67 | 26.7 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.3 | 116 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 25.1 | 125 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 70.5 | 70.5 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 66.8 | 66.8 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 35.0 | 87.5 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-40_Form2_FC0L_169S38_SJ2749331.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**BP1-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 11:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-41 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.02 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:39:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 17.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.318 (L) | |
| **PFPeA** | U | | 0.159 (L) | |
| **PFHxA** | U | | 0.0796 (L) | |
| **PFHpA** | U | | 0.0796 (L) | |
| **PFOA** | U | | 0.0796 (L) | |
| **PFNA** | U | | 0.0796 (L) | |
| **PFDA** | U | | 0.0796 (L) | |
| **PFUnA** | U | | 0.0796 (L) | |
| **PFDoA** | U | | 0.0796 (L) | |
| **PFTrDA** | U | | 0.0796 (L) | |
| **PFTeDA** | U | | 0.0796 (L) | |
| **PFBS** | U | | 0.0796 (L) | |
| **PFPeS** | U | | 0.0796 (L) | |
| **PFHxS** | U | | 0.0796 (L) | |
| **PFHpS** | U | | 0.0796 (L) | |
| **PFOS** | | 0.180 | 0.0796 (L) | |
| **PFNS** | U | | 0.0796 (L) | |
| **PFDS** | U | | 0.0796 (L) | |
| **PFDoS** | U | | 0.0796 (L) | |
| **4:2 FTS** | U | | 0.318 (L) | |
| **6:2 FTS** | U | | 0.335 (S) | |
| **8:2 FTS** | U | | 0.318 (L) | |
| **PFOSA** | U | | 0.0796 (L) | |
| **N-MeFOSA** | U | | 0.0916 (L) | |
| **N-EtFOSA** | U | | 0.199 (L) | |
| **MeFOSAA** | U | | 0.0796 (L) | |
| **EtFOSAA** | U | | 0.0796 (L) | |
| **N-MeFOSE** | U | | 0.796 (L) | |
| **N-EtFOSE** | U | | 0.597 (L) | |
| **HFPO-DA** | U | | 0.303 (L) | |
| **ADONA** | U | | 0.318 (L) | |
| **9Cl-PF3ONS** | U | | 0.318 (L) | |
| **11Cl-PF3OUdS** | U | | 0.318 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-41_Form1A_FC0L_174S19_SJ2749943.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**BP1-SED-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 11:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-41 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.02 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:39:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 17.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.1 | 95.2 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 20.6 | 103 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.2 | 102 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 10.1 | 101 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.82 | 98.2 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.55 | 90.9 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.35 | 107 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.36 | 107 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.26 | 105 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.37 | 87.4 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.5 | 105 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.88 | 98.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.9 | 109 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 23.0 | 115 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.6 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 21.1 | 105 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.08 | 70.8 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.98 | 59.8 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.0 | 115 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 25.6 | 128 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 95.4 | 95.4 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 98.3 | 98.3 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.9 | 94.9 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-41_Form2_FC0L_174S19_SJ2749943.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB1-SED-COMP-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-42 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:52:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 31.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.320 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0800 (L) | |
| **PFHpA** | U | | 0.0800 (L) | |
| **PFOA** | U | | 0.0800 (L) | |
| **PFNA** | U | | 0.0800 (L) | |
| **PFDA** | U | | 0.0800 (L) | |
| **PFUnA** | U | | 0.0800 (L) | |
| **PFDoA** | U | | 0.0800 (L) | |
| **PFTrDA** | U | | 0.0800 (L) | |
| **PFTeDA** | U | | 0.0800 (L) | |
| **PFBS** | U | | 0.0800 (L) | |
| **PFPeS** | U | | 0.0800 (L) | |
| **PFHxS** | U | | 0.0800 (L) | |
| **PFHpS** | U | | 0.0800 (L) | |
| **PFOS** | U | | 0.0800 (L) | |
| **PFNS** | U | | 0.0800 (L) | |
| **PFDS** | U | | 0.0800 (L) | |
| **PFDoS** | U | | 0.0800 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0800 (L) | |
| **N-MeFOSA** | U | | 0.0920 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | J | 0.081 | 0.0800 (L) | |
| **EtFOSAA** | U | | 0.0800 (L) | |
| **N-MeFOSE** | U | | 0.800 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-42_Form1A_FC0L_174S20_SJ2749944.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB1-SED-COMP-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 12:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-42 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:52:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 31.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.9 | 97.3 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 20.8 | 104 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.4 | 104 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 11.1 | 111 | 5:24 |
| **13C8-PFOA** | | 10.0 | 10.5 | 105 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.70 | 94.0 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.10 | 102 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.25 | 105 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.04 | 101 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.06 | 81.2 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.5 | 105 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.84 | 98.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 24.2 | 121 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.0 | 74.9 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 23.6 | 118 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 11.1 | 111 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 4.13 | 41.3 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.34 | 33.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.8 | 119 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 26.8 | 134 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 79.7 | 79.7 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 75.2 | 75.2 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 40.1 | 100 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-42_Form2_FC0L_174S20_SJ2749944.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 12:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-43 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.09 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:05:53 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 29.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1.49 | 0.315 (L) | 1:55 |
| **PFPeA** | J | 0.191 | 0.157 (L) | 4:21 |
| **PFHxA** | J | 0.117 | 0.0787 (L) | 4:56 |
| **PFHpA** | U | | 0.0787 (L) | |
| **PFOA** | | 0.781 | 0.0787 (L) | |
| **PFNA** | U | | 0.0787 (L) | |
| **PFDA** | U | | 0.0787 (L) | |
| **PFUnA** | U | | 0.0787 (L) | |
| **PFDoA** | U | | 0.0787 (L) | |
| **PFTrDA** | U | | 0.0787 (L) | |
| **PFTeDA** | U | | 0.0787 (L) | |
| **PFBS** | U | | 0.0787 (L) | |
| **PFPeS** | U | | 0.0787 (L) | |
| **PFHxS** | U | | 0.0787 (L) | |
| **PFHpS** | U | | 0.0787 (L) | |
| **PFOS** | | 1.37 | 0.0787 (L) | |
| **PFNS** | U | | 0.0787 (L) | |
| **PFDS** | U | | 0.0787 (L) | |
| **PFDoS** | U | | 0.0787 (L) | |
| **4:2 FTS** | U | | 0.315 (L) | |
| **6:2 FTS** | U | | 0.325 (S) | |
| **8:2 FTS** | U | | 0.315 (L) | |
| **PFOSA** | U | | 0.0787 (L) | |
| **N-MeFOSA** | U | | 0.0905 (L) | |
| **N-EtFOSA** | U | | 0.197 (L) | |
| **MeFOSAA** | U | | 0.0787 (L) | |
| **EtFOSAA** | U | | 0.0787 (L) | |
| **N-MeFOSE** | U | | 0.787 (L) | |
| **N-EtFOSE** | U | | 0.590 (L) | |
| **HFPO-DA** | U | | 0.299 (L) | |
| **ADONA** | U | | 0.315 (L) | |
| **9Cl-PF3ONS** | U | | 0.315 (L) | |
| **11Cl-PF3OUdS** | U | | 0.315 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-43_Form1A_FC0L_174S21_SJ2749945.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-01-042720**
**Sample Collection:**
**27-Apr-2020 12:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-43 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.09 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:05:53 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 29.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.6 | 94.0 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.93 | 99.3 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.69 | 96.9 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.27 | 92.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.75 | 94.9 | 7:00 |
| **13C6-PFDA** | | 5.00 | 5.14 | 103 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 4.82 | 96.3 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.74 | 94.8 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.39 | 87.8 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.6 | 106 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.95 | 99.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.6 | 106 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 17.5 | 87.6 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.1 | 85.7 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 22.8 | 114 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:40 |
| **D3-N-MeFOSA** | V | 10.0 | 4.22 | 42.2 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.59 | 35.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 24.2 | 121 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 26.7 | 134 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 77.0 | 77.0 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 81.4 | 81.4 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.2 | 92.9 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-43_Form2_FC0L_174S21_SJ2749945.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-02-042720**
**Sample Collection:**
**27-Apr-2020 12:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-44 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.62 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:18:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 26.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 0.740 | 0.285 (L) | 1:55 |
| **PFPeA** | U | | 0.142 (L) | |
| **PFHxA** | U | | 0.0711 (L) | |
| **PFHpA** | U | | 0.0711 (L) | |
| **PFOA** | | 0.408 | 0.0711 (L) | |
| **PFNA** | U | | 0.0711 (L) | |
| **PFDA** | U | | 0.0711 (L) | |
| **PFUnA** | U | | 0.0711 (L) | |
| **PFDoA** | U | | 0.0711 (L) | |
| **PFTrDA** | U | | 0.0711 (L) | |
| **PFTeDA** | U | | 0.0711 (L) | |
| **PFBS** | U | | 0.0711 (L) | |
| **PFPeS** | U | | 0.0711 (L) | |
| **PFHxS** | U | | 0.0711 (L) | |
| **PFHpS** | U | | 0.0711 (L) | |
| **PFOS** | | 0.862 | 0.0711 (L) | |
| **PFNS** | U | | 0.0711 (L) | |
| **PFDS** | U | | 0.0711 (L) | |
| **PFDoS** | U | | 0.0711 (L) | |
| **4:2 FTS** | U | | 0.285 (L) | |
| **6:2 FTS** | U | | 0.288 (S) | |
| **8:2 FTS** | U | | 0.285 (L) | |
| **PFOSA** | U | | 0.0711 (L) | |
| **N-MeFOSA** | U | | 0.0818 (L) | |
| **N-EtFOSA** | U | | 0.178 (L) | |
| **MeFOSAA** | U | | 0.0711 (L) | |
| **EtFOSAA** | U | | 0.0711 (L) | |
| **N-MeFOSE** | U | | 0.711 (L) | |
| **N-EtFOSE** | U | | 0.534 (L) | |
| **HFPO-DA** | U | | 0.270 (L) | |
| **ADONA** | U | | 0.285 (L) | |
| **9Cl-PF3ONS** | U | | 0.285 (L) | |
| **11Cl-PF3OUdS** | U | | 0.285 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-44_Form1A_FC0L_174S22_SJ2749946.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-02-042720**
**Sample Collection:**
**27-Apr-2020 12:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-44 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.62 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:18:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 26.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.4 | 95.9 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 20.1 | 100 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 10.1 | 101 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.39 | 93.9 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.78 | 95.6 | 7:00 |
| **13C6-PFDA** | | 5.00 | 5.15 | 103 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.11 | 102 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.08 | 102 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.55 | 91.0 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.3 | 103 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 10.1 | 101 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.5 | 105 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 23.2 | 116 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.5 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 21.0 | 105 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 10.3 | 103 | 8:40 |
| **D3-N-MeFOSA** | V | 10.0 | 4.22 | 42.2 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.69 | 36.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 24.1 | 121 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 27.2 | 136 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 87.9 | 87.9 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 93.1 | 93.1 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 34.9 | 87.1 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-44_Form2_FC0L_174S22_SJ2749946.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720**
**Sample Collection:**
**27-Apr-2020 12:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-45 i (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.25 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:58:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 26.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 0.787 | 0.305 (L) | 1:55 |
| **PFPeA** | U | | 0.152 (L) | |
| **PFHxA** | U | | 0.0762 (L) | |
| **PFHpA** | U | | 0.0762 (L) | |
| **PFOA** | | 0.329 | 0.0762 (L) | |
| **PFNA** | U | | 0.0762 (L) | |
| **PFDA** | U | | 0.0762 (L) | |
| **PFUnA** | U | | 0.0762 (L) | |
| **PFDoA** | U | | 0.0762 (L) | |
| **PFTrDA** | U | | 0.0762 (L) | |
| **PFTeDA** | U | | 0.0762 (L) | |
| **PFBS** | U | | 0.0762 (L) | |
| **PFPeS** | U | | 0.0762 (L) | |
| **PFHxS** | U | | 0.0762 (L) | |
| **PFHpS** | U | | 0.0762 (L) | |
| **PFOS** | | 0.852 | 0.0762 (L) | |
| **PFNS** | U | | 0.0762 (L) | |
| **PFDS** | U | | 0.0762 (L) | |
| **PFDoS** | U | | 0.0762 (L) | |
| **4:2 FTS** | U | | 0.305 (L) | |
| **6:2 FTS** | U | | 0.274 (L) | |
| **8:2 FTS** | U | | 0.305 (L) | |
| **PFOSA** | U | | 0.0762 (L) | |
| **N-MeFOSA** | U | | 0.0876 (L) | |
| **N-EtFOSA** | U | | 0.190 (L) | |
| **MeFOSAA** | U | | 0.0762 (L) | |
| **EtFOSAA** | U | | 0.0762 (L) | |
| **N-MeFOSE** | U | | 0.762 (L) | |
| **N-EtFOSE** | U | | 0.571 (L) | |
| **HFPO-DA** | U | | 0.289 (L) | |
| **ADONA** | U | | 0.305 (L) | |
| **9Cl-PF3ONS** | U | | 0.305 (L) | |
| **11Cl-PF3OUdS** | U | | 0.305 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-45_Form1A_FC0L_174S25_SJ2749949.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720**
**Sample Collection:**
**27-Apr-2020 12:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-45 i (A) |
| **Matrix:** | SOLID | **Sample Size:** | 5.25 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:58:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 26.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.1 | 95.2 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 21.0 | 105 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.94 | 99.4 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.41 | 94.1 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.71 | 94.2 | 7:00 |
| **13C6-PFDA** | | 5.00 | 5.58 | 112 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.53 | 111 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.62 | 112 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.66 | 93.3 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.99 | 99.9 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.40 | 94.0 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.6 | 106 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 18.7 | 93.3 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.1 | 85.6 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 19.8 | 98.9 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 9.80 | 98.0 | 8:40 |
| **D3-N-MeFOSA** | V | 10.0 | 4.02 | 40.2 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.63 | 36.3 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.6 | 118 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 24.5 | 122 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 87.1 | 87.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 89.3 | 89.3 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 36.6 | 91.5 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-45_Form2_FC0L_174S25_SJ2749949.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-SED-FOAM-0-6-01-042320**
**Sample Collection:**
**23-Apr-2020 12:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-46 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:32:03 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 15.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.464 | 0.318 (L) | 1:55 |
| **PFPeA** | U | | 0.159 (L) | |
| **PFHxA** | U | | 0.0795 (L) | |
| **PFHpA** | U | | 0.0795 (L) | |
| **PFOA** | J | 0.095 | 0.0795 (L) | |
| **PFNA** | U | | 0.0795 (L) | |
| **PFDA** | U | | 0.0795 (L) | |
| **PFUnA** | U | | 0.0795 (L) | |
| **PFDoA** | U | | 0.0795 (L) | |
| **PFTrDA** | U | | 0.0795 (L) | |
| **PFTeDA** | U | | 0.0795 (L) | |
| **PFBS** | U | | 0.0795 (L) | |
| **PFPeS** | U | | 0.0795 (L) | |
| **PFHxS** | U | | 0.0795 (L) | |
| **PFHpS** | U | | 0.0795 (L) | |
| **PFOS** | | 0.619 | 0.0795 (L) | |
| **PFNS** | U | | 0.0795 (L) | |
| **PFDS** | U | | 0.0795 (L) | |
| **PFDoS** | U | | 0.0795 (L) | |
| **4:2 FTS** | U | | 0.318 (L) | |
| **6:2 FTS** | U | | 0.312 (S) | |
| **8:2 FTS** | U | | 0.318 (L) | |
| **PFOSA** | U | | 0.0795 (L) | |
| **N-MeFOSA** | U | | 0.0914 (L) | |
| **N-EtFOSA** | U | | 0.199 (L) | |
| **MeFOSAA** | U | | 0.0795 (L) | |
| **EtFOSAA** | U | | 0.0795 (L) | |
| **N-MeFOSE** | U | | 0.795 (L) | |
| **N-EtFOSE** | U | | 0.596 (L) | |
| **HFPO-DA** | U | | 0.302 (L) | |
| **ADONA** | U | | 0.318 (L) | |
| **9Cl-PF3ONS** | U | | 0.318 (L) | |
| **11Cl-PF3OUdS** | U | | 0.318 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-46_Form1A_FC0L_174S23_SJ2749947.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-SED-FOAM-0-6-01-042320**
**Sample Collection:**
**23-Apr-2020 12:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-46 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:32:03 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 15.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.2 | 95.6 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 102 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.4 | 104 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.45 | 94.5 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.37 | 93.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.52 | 90.4 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.27 | 105 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.27 | 105 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.27 | 105 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.83 | 96.6 | 8:52 |
| **13C3-PFBS** | | 10.0 | 9.86 | 98.6 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.49 | 94.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.9 | 109 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 21.1 | 106 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 17.6 | 87.8 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 20.5 | 102 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.77 | 77.7 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.07 | 70.7 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.1 | 110 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 23.2 | 116 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 106 | 106 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 112 | 112 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 36.9 | 92.3 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-46_Form2_FC0L_174S23_SJ2749947.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP21-SED-BEACH-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 15:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-47 i |
| **Matrix:** | SOLID | **Sample Size:** | 4.11 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:45:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 17.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.389 (L) | |
| **PFPeA** | U | | 0.195 (L) | |
| **PFHxA** | U | | 0.0973 (L) | |
| **PFHpA** | U | | 0.0973 (L) | |
| **PFOA** | J | 0.117 | 0.0973 (L) | |
| **PFNA** | U | | 0.0973 (L) | |
| **PFDA** | U | | 0.0973 (L) | |
| **PFUnA** | U | | 0.0973 (L) | |
| **PFDoA** | U | | 0.0973 (L) | |
| **PFTrDA** | U | | 0.0973 (L) | |
| **PFTeDA** | U | | 0.0973 (L) | |
| **PFBS** | U | | 0.0973 (L) | |
| **PFPeS** | U | | 0.0973 (L) | |
| **PFHxS** | U | | 0.0973 (L) | |
| **PFHpS** | U | | 0.0973 (L) | |
| **PFOS** | | 2.45 | 0.0973 (L) | |
| **PFNS** | U | | 0.0973 (L) | |
| **PFDS** | U | | 0.0973 (L) | |
| **PFDoS** | U | | 0.0973 (L) | |
| **4:2 FTS** | U | | 0.389 (L) | |
| **6:2 FTS** | U | | 0.375 (S) | |
| **8:2 FTS** | U | | 0.389 (L) | |
| **PFOSA** | U | | 0.0973 (L) | |
| **N-MeFOSA** | U | | 0.112 (L) | |
| **N-EtFOSA** | U | | 0.243 (L) | |
| **MeFOSAA** | U | | 0.0973 (L) | |
| **EtFOSAA** | U | | 0.0973 (L) | |
| **N-MeFOSE** | U | | 0.973 (L) | |
| **N-EtFOSE** | U | | 0.730 (L) | |
| **HFPO-DA** | U | | 0.370 (L) | |
| **ADONA** | U | | 0.389 (L) | |
| **9Cl-PF3ONS** | U | | 0.389 (L) | |
| **11Cl-PF3OUdS** | U | | 0.389 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-47_Form1A_FC0L_174S24_SJ2749948.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-SED-BEACH-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 15:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-47 i |
| **Matrix:** | SOLID | **Sample Size:** | 4.11 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 20:45:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 17.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 39.4 | 98.6 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 22.5 | 113 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.6 | 106 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.82 | 98.2 | 5:24 |
| **13C8-PFOA** | | 10.0 | 10.2 | 102 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.99 | 99.9 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.35 | 107 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.51 | 110 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.33 | 107 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.85 | 97.1 | 8:52 |
| **13C3-PFBS** | | 10.0 | 10.4 | 104 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 10.5 | 105 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.9 | 109 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 23.8 | 119 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 19.6 | 97.8 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 22.1 | 111 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 10.5 | 105 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.74 | 77.4 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.81 | 68.1 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.9 | 119 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 24.0 | 120 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 110 | 110 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 116 | 116 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 40.9 | 102 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-47_Form2_FC0L_174S24_SJ2749948.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG72423-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 5.00 g |
| **Extraction Date:** | 27-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 28-May-2020 **Time:** 20:56:49 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_169 S: 18** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Concentration Units:** | ng/g | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.320 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0800 (L) | |
| **PFHpA** | U | | 0.0800 (L) | |
| **PFOA** | U | | 0.0800 (L) | |
| **PFNA** | U | | 0.0800 (L) | |
| **PFDA** | U | | 0.0800 (L) | |
| **PFUnA** | U | | 0.0800 (L) | |
| **PFDoA** | U | | 0.0800 (L) | |
| **PFTrDA** | U | | 0.0800 (L) | |
| **PFTeDA** | U | | 0.0800 (L) | |
| **PFBS** | U | | 0.0800 (L) | |
| **PFPeS** | U | | 0.0800 (L) | |
| **PFHxS** | U | | 0.0800 (L) | |
| **PFHpS** | U | | 0.0800 (L) | |
| **PFOS** | U | | 0.0800 (L) | |
| **PFNS** | U | | 0.0800 (L) | |
| **PFDS** | U | | 0.0800 (L) | |
| **PFDoS** | U | | 0.0800 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0800 (L) | |
| **N-MeFOSA** | U | | 0.0920 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0800 (L) | |
| **EtFOSAA** | U | | 0.0800 (L) | |
| **N-MeFOSE** | U | | 0.800 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72423-101_Form1A_FC0L_169S18_SJ2749311.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72423-101 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 20:56:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 18** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.5 | 91.3 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 105 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.89 | 98.9 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.27 | 92.7 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.04 | 90.4 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.51 | 90.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.87 | 97.3 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.91 | 98.3 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.67 | 93.4 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.90 | 78.0 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.83 | 98.3 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.37 | 93.7 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.62 | 96.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.5 | 97.7 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.9 | 89.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.1 | 95.3 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.22 | 72.2 | 8:42 |
| **D3-N-MeFOSA** | V | 10.0 | 3.71 | 37.1 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 2.82 | 28.2 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 19.4 | 97.2 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 21.6 | 108 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 54.7 | 54.7 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 53.6 | 53.6 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.4 | 93.4 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72423-101_Form2_FC0L_169S18_SJ2749311.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG72424-101 i |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 5.00 g |
| **Extraction Date:** | 28-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:26:38 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_174 S: 18** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Concentration Units:** | ng/g | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.320 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0800 (L) | |
| **PFHpA** | U | | 0.0800 (L) | |
| **PFOA** | U | | 0.0800 (L) | |
| **PFNA** | U | | 0.0800 (L) | |
| **PFDA** | U | | 0.0800 (L) | |
| **PFUnA** | U | | 0.0800 (L) | |
| **PFDoA** | U | | 0.0800 (L) | |
| **PFTrDA** | U | | 0.0800 (L) | |
| **PFTeDA** | U | | 0.0800 (L) | |
| **PFBS** | U | | 0.0800 (L) | |
| **PFPeS** | U | | 0.0800 (L) | |
| **PFHxS** | U | | 0.0800 (L) | |
| **PFHpS** | U | | 0.0800 (L) | |
| **PFOS** | U | | 0.0800 (L) | |
| **PFNS** | U | | 0.0800 (L) | |
| **PFDS** | U | | 0.0800 (L) | |
| **PFDoS** | U | | 0.0800 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | J | 0.361 | 0.288 (L) | 5:51 |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0800 (L) | |
| **N-MeFOSA** | U | | 0.0920 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0800 (L) | |
| **EtFOSAA** | U H | | 0.0800 (L) | |
| **N-MeFOSE** | U | | 0.800 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; H = concentration is estimated.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72424-101_Form1A_FC0L_174S18_SJ2749942.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72424-101 i |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:26:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 18** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 40.0 | 99.9 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 21.4 | 107 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.5 | 105 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 10.2 | 102 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.74 | 97.4 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.87 | 97.4 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.31 | 106 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.26 | 105 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.08 | 102 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.27 | 85.4 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.6 | 106 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 10.2 | 102 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.8 | 108 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 23.3 | 117 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 20.0 | 99.8 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 22.6 | 113 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 10.1 | 101 | 8:40 |
| **D3-N-MeFOSA** | V | 10.0 | 1.91 | 19.1 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 0.825 | 8.25 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.7 | 114 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 24.0 | 120 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 59.7 | 59.7 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 60.4 | 60.4 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 41.0 | 103 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72424-101_Form2_FC0L_174S18_SJ2749942.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72423-102 |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 20:30:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_169 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 40.6 | 102 | 1:57 |
| **PFPeA** | | 20.0 | 19.9 | 99.4 | 4:22 |
| **PFHxA** | | 10.0 | 9.91 | 99.1 | 4:57 |
| **PFHpA** | | 10.0 | 9.38 | 93.8 | 5:25 |
| **PFOA** | | 10.0 | 9.41 | 94.1 | |
| **PFNA** | | 10.0 | 10.4 | 104 | |
| **PFDA** | | 10.0 | 9.11 | 91.1 | 7:31 |
| **PFUnA** | | 10.0 | 9.50 | 95.0 | 7:51 |
| **PFDoA** | | 10.0 | 10.9 | 109 | 8:07 |
| **PFTrDA** | | 10.0 | 10.0 | 100 | 8:28 |
| **PFTeDA** | | 10.0 | 10.3 | 103 | 8:53 |
| **PFBS** | | 10.0 | 9.72 | 97.2 | 4:54 |
| **PFPeS** | | 10.0 | 10.2 | 102 | 5:28 |
| **PFHxS** | | 10.0 | 9.89 | 98.9 | |
| **PFHpS** | | 10.0 | 9.80 | 98.0 | 7:08 |
| **PFOS** | | 10.0 | 8.88 | 88.8 | |
| **PFNS** | | 10.0 | 10.2 | 102 | 7:56 |
| **PFDS** | | 10.0 | 9.46 | 94.6 | 8:14 |
| **PFDoS** | | 10.0 | 9.39 | 93.9 | 9:04 |
| **4:2 FTS** | | 40.0 | 45.0 | 112 | 4:50 |
| **6:2 FTS** | | 36.1 | 35.5 | 98.3 | 5:53 |
| **8:2 FTS** | | 40.0 | 42.4 | 106 | 7:22 |
| **PFOSA** | | 10.0 | 10.3 | 103 | |
| **N-MeFOSA** | | 11.5 | 12.9 | 112 | |
| **N-EtFOSA** | | 25.0 | 27.7 | 111 | |
| **MeFOSAA** | | 10.0 | 11.5 | 115 | |
| **EtFOSAA** | | 10.0 | 9.90 | 99.0 | |
| **N-MeFOSE** | | 100 | 102 | 102 | |
| **N-EtFOSE** | | 75.0 | 79.0 | 105 | |
| **HFPO-DA** | | 38.0 | 40.8 | 107 | 5:05 |
| **ADONA** | | 40.0 | 41.9 | 105 | 5:39 |
| **9Cl-PF3ONS** | | 40.0 | 41.6 | 104 | 7:51 |
| **11Cl-PF3OUdS** | | 40.0 | 41.3 | 103 | 8:29 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72423-102 |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 20:30:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_169 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.5 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 96.2 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.31 | 93.1 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.69 | 86.9 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.32 | 86.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.02 | 100 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.75 | 95.1 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.30 | 86.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.97 | 79.4 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.64 | 96.4 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.05 | 90.5 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.49 | 94.9 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 17.5 | 87.7 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.2 | 80.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.5 | 87.4 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 7.17 | 71.7 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 2.27 | 22.7 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 1.22 | 12.2 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 17.6 | 88.2 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 18.7 | 93.7 | 7:42 |
| **d7-NMe-FOSE** | V | 100 | 45.5 | 45.5 | 9:58 |
| **d9-NEt-FOSE** | V | 100 | 45.4 | 45.4 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 34.2 | 85.6 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8; Report Filename: PFC_FC_LC_PFAS_WG72423-102_Form8B_SJ2749307.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72424-102 i |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:00:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_174 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 40.1 | 100 | 1:55 |
| **PFPeA** | | 20.0 | 18.9 | 94.4 | 4:21 |
| **PFHxA** | | 10.0 | 9.60 | 96.0 | 4:56 |
| **PFHpA** | | 10.0 | 9.33 | 93.3 | 5:24 |
| **PFOA** | | 10.0 | 8.75 | 87.5 | |
| **PFNA** | | 10.0 | 9.90 | 99.0 | |
| **PFDA** | | 10.0 | 9.60 | 96.0 | 7:30 |
| **PFUnA** | | 10.0 | 9.63 | 96.3 | 7:50 |
| **PFDoA** | | 10.0 | 9.77 | 97.7 | 8:06 |
| **PFTrDA** | | 10.0 | 8.97 | 89.7 | 8:26 |
| **PFTeDA** | | 10.0 | 9.79 | 97.9 | 8:51 |
| **PFBS** | | 10.0 | 9.49 | 94.9 | 4:54 |
| **PFPeS** | | 10.0 | 10.3 | 103 | 5:26 |
| **PFHxS** | | 10.0 | 9.03 | 90.3 | |
| **PFHpS** | | 10.0 | 9.59 | 95.9 | 7:07 |
| **PFOS** | | 10.0 | 8.83 | 88.3 | |
| **PFNS** | | 10.0 | 9.68 | 96.8 | 7:55 |
| **PFDS** | | 10.0 | 8.59 | 85.9 | 8:13 |
| **PFDoS** | | 10.0 | 9.11 | 91.1 | 9:02 |
| **4:2 FTS** | | 40.0 | 40.8 | 102 | 4:49 |
| **6:2 FTS** | | 36.1 | 37.1 | 103 | 5:51 |
| **8:2 FTS** | | 40.0 | 39.0 | 97.5 | 7:20 |
| **PFOSA** | | 10.0 | 9.85 | 98.5 | |
| **N-MeFOSA** | | 11.5 | 13.2 | 115 | |
| **N-EtFOSA** | H | 25.0 | 26.7 | 107 | |
| **MeFOSAA** | | 10.0 | 9.67 | 96.7 | |
| **EtFOSAA** | | 10.0 | 9.13 | 91.3 | |
| **N-MeFOSE** | | 100 | 97.7 | 97.7 | |
| **N-EtFOSE** | | 75.0 | 73.0 | 97.4 | |
| **HFPO-DA** | | 38.0 | 37.6 | 99.0 | 5:05 |
| **ADONA** | | 40.0 | 40.1 | 100 | 5:38 |
| **9Cl-PF3ONS** | | 40.0 | 40.3 | 101 | 7:50 |
| **11Cl-PF3OUdS** | | 40.0 | 37.1 | 92.8 | 8:28 |

(1) Where applicable, custom lab flags have been used on this report; H = concentration is estimated.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72424-102 i |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 19:00:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_174 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.8 | 92.1 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.90 | 99.0 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.85 | 98.5 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.31 | 93.1 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.64 | 92.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.70 | 93.9 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 4.84 | 96.8 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.48 | 89.6 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.19 | 83.9 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.89 | 98.9 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.57 | 95.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 20.0 | 100 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 16.4 | 82.1 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 20.8 | 104 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 9.74 | 97.4 | 8:40 |
| **D3-N-MeFOSA** | V | 10.0 | 1.07 | 10.7 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 0.356 | 3.56 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.7 | 108 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 24.3 | 122 | 7:41 |
| **d7-NMe-FOSE** | V | 100 | 47.5 | 47.5 | 9:58 |
| **d9-NEt-FOSE** | V | 100 | 46.8 | 46.8 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 93.9 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8; Report Filename: PFC_FC_LC_PFAS_WG72424-102_Form8B_SJ2749938.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720 (MS)**
**Sample Collection:**
**27-Apr-2020 14:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72423-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.04 g (dry) |
| **Extraction Date:** | 27-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-May-2020 **Time:** 01:30:46 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_169 S: 39** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_169 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 39.6 | J | 0.360 | 38.8 | 96.8 | 3.62 |
| **PFPeA** | | N/A | 19.8 | U | | 19.1 | 96.2 | 2.52 |
| **PFHxA** | | N/A | 9.91 | U | | 9.17 | 92.5 | 1.10 |
| **PFHpA** | | N/A | 9.91 | U | | 9.30 | 93.8 | 9.40 |
| **PFOA** | | N/A | 9.91 | J | 0.126 | 8.99 | 89.4 | 4.49 |
| **PFNA** | | N/A | 9.91 | U | | 9.97 | 101 | 0.251 |
| **PFDA** | | N/A | 9.91 | U | | 9.09 | 91.8 | 2.30 |
| **PFUnA** | | N/A | 9.91 | U | | 9.52 | 96.0 | 0.960 |
| **PFDoA** | | N/A | 9.91 | U | | 10.4 | 105 | 12.7 |
| **PFTrDA** | | N/A | 9.91 | U | | 9.07 | 91.6 | 3.64 |
| **PFTeDA** | | N/A | 9.91 | U | | 9.73 | 98.2 | 7.38 |
| **PFBS** | | N/A | 9.91 | U | | 9.08 | 91.6 | 9.59 |
| **PFPeS** | | N/A | 9.91 | U | | 10.5 | 106 | 10.5 |
| **PFHxS** | | N/A | 9.91 | U | | 9.21 | 92.9 | 3.19 |
| **PFHpS** | | N/A | 9.91 | U | | 9.33 | 94.1 | 8.01 |
| **PFOS** | | N/A | 9.91 | | 1.34 | 9.83 | 85.7 | 4.29 |
| **PFNS** | | N/A | 9.91 | U | | 9.56 | 96.5 | 4.66 |
| **PFDS** | | N/A | 9.91 | U | | 8.76 | 88.4 | 0.269 |
| **PFDoS** | | N/A | 9.91 | U | | 9.14 | 92.2 | 6.53 |
| **4:2 FTS** | | N/A | 39.6 | U | | 41.6 | 105 | 6.82 |
| **6:2 FTS** | | N/A | 35.7 | U | | 33.3 | 93.2 | 5.11 |
| **8:2 FTS** | | N/A | 39.6 | U | | 36.6 | 92.3 | 1.96 |
| **PFOSA** | | N/A | 9.91 | U | | 9.44 | 95.2 | 2.26 |
| **N-MeFOSA** | | N/A | 11.4 | U | | 11.8 | 103 | 5.81 |
| **N-EtFOSA** | | N/A | 24.8 | U | | 23.0 | 92.8 | 8.31 |
| **MeFOSAA** | | N/A | 9.91 | U | | 9.75 | 98.4 | 2.24 |
| **EtFOSAA** | | N/A | 9.91 | U | | 9.71 | 97.9 | 5.74 |
| **N-MeFOSE** | | N/A | 99.1 | U | | 97.8 | 98.7 | 5.33 |
| **N-EtFOSE** | | N/A | 74.3 | U | | 74.3 | 100 | 5.73 |
| **HFPO-DA** | | N/A | 37.7 | U | | 37.3 | 99.0 | 3.62 |
| **ADONA** | | N/A | 39.6 | U | | 38.4 | 96.8 | 3.54 |
| **9Cl-PF3ONS** | | N/A | 39.6 | U | | 38.8 | 97.9 | 4.21 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 39.6 | U | | 39.3 | 99.0 | 1.88 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 23-Jun-2020 10:17:49; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72423-103_L33050-32_Form8C.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720 (MS)**
**Sample Collection:**
**27-Apr-2020 14:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | WG72423-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.04 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:30:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 22.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 38.8 | 0.317 (L) | 1:57 |
| **PFPeA** | | 19.1 | 0.159 (L) | 4:22 |
| **PFHxA** | | 9.17 | 0.0793 (L) | 4:57 |
| **PFHpA** | | 9.30 | 0.0793 (L) | 5:25 |
| **PFOA** | | 8.99 | 0.0793 (L) | |
| **PFNA** | | 9.97 | 0.0793 (L) | |
| **PFDA** | | 9.09 | 0.0793 (L) | 7:31 |
| **PFUnA** | | 9.52 | 0.0793 (L) | 7:50 |
| **PFDoA** | | 10.4 | 0.0793 (L) | 8:07 |
| **PFTrDA** | | 9.07 | 0.0793 (L) | 8:27 |
| **PFTeDA** | | 9.73 | 0.0793 (L) | 8:53 |
| **PFBS** | | 9.08 | 0.0793 (L) | 4:54 |
| **PFPeS** | | 10.5 | 0.0793 (L) | 5:27 |
| **PFHxS** | | 9.21 | 0.0793 (L) | |
| **PFHpS** | | 9.33 | 0.0793 (L) | 7:08 |
| **PFOS** | | 9.83 | 0.0793 (L) | |
| **PFNS** | | 9.56 | 0.0793 (L) | 7:56 |
| **PFDS** | | 8.76 | 0.0793 (L) | 8:14 |
| **PFDoS** | | 9.14 | 0.0793 (L) | 9:04 |
| **4:2 FTS** | | 41.6 | 0.317 (L) | 4:49 |
| **6:2 FTS** | | 33.3 | 0.285 (L) | 5:52 |
| **8:2 FTS** | | 36.6 | 0.317 (L) | 7:21 |
| **PFOSA** | | 9.44 | 0.0793 (L) | |
| **N-MeFOSA** | | 11.8 | 0.0912 (L) | |
| **N-EtFOSA** | | 23.0 | 0.198 (L) | |
| **MeFOSAA** | | 9.75 | 0.0793 (L) | |
| **EtFOSAA** | | 9.71 | 0.0793 (L) | |
| **N-MeFOSE** | | 97.8 | 0.793 (L) | |
| **N-EtFOSE** | | 74.3 | 0.595 (L) | |
| **HFPO-DA** | | 37.3 | 0.301 (L) | 5:06 |
| **ADONA** | | 38.4 | 0.317 (L) | 5:39 |
| **9Cl-PF3ONS** | | 38.8 | 0.317 (L) | 7:50 |
| **11Cl-PF3OUdS** | | 39.3 | 0.317 (L) | 8:29 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72423-103_Form1A_FC0L_169S39_SJ2749332.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720 (MS)**
**Sample Collection:**
**27-Apr-2020 14:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72423-103 (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.04 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:30:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 22.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.9 | 94.8 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 19.7 | 98.5 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 10.0 | 100 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.36 | 93.6 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.61 | 92.3 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.25 | 105 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.66 | 93.3 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.96 | 99.3 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.51 | 90.2 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.8 | 108 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.79 | 97.9 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.5 | 105 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 14.3 | 71.6 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 14.4 | 71.8 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 16.6 | 83.2 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 9.45 | 94.5 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.33 | 63.3 | 10:05 |
| **D5-N-EtFOSA** | | 10.0 | 5.32 | 53.2 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.6 | 108 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 20.8 | 104 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 88.4 | 88.4 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 90.2 | 90.2 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.8 | 94.5 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72423-103_Form2_FC0L_169S39_SJ2749332.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720 (MS)**
**Sample Collection:**
**27-Apr-2020 12:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72424-103 i (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.38 g (dry) |
| **Extraction Date:** | 28-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 02-Jun-2020 **Time:** 21:11:18 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_174 S: 26** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_174 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 37.2 | | 0.787 | 36.6 | 96.4 | 4.65 |
| **PFPeA** | | N/A | 18.6 | U | | 17.8 | 95.7 | 3.94 |
| **PFHxA** | | N/A | 9.30 | U | | 8.75 | 94.1 | 5.41 |
| **PFHpA** | | N/A | 9.30 | U | | 8.97 | 96.4 | 2.05 |
| **PFOA** | | N/A | 9.30 | | 0.329 | 8.37 | 86.5 | 2.30 |
| **PFNA** | | N/A | 9.30 | U | | 9.13 | 98.2 | 4.70 |
| **PFDA** | | N/A | 9.30 | U | | 8.36 | 89.9 | 5.92 |
| **PFUnA** | | N/A | 9.30 | U | | 8.52 | 91.6 | 8.65 |
| **PFDoA** | | N/A | 9.30 | U | | 8.97 | 96.5 | 7.53 |
| **PFTrDA** | | N/A | 9.30 | U | | 8.00 | 86.0 | 9.75 |
| **PFTeDA** | | N/A | 9.30 | U | | 8.89 | 95.6 | 5.28 |
| **PFBS** | | N/A | 9.30 | U | | 8.65 | 93.0 | 3.87 |
| **PFPeS** | | N/A | 9.30 | U | | 9.33 | 100 | 1.74 |
| **PFHxS** | | N/A | 9.30 | U | | 8.88 | 95.4 | 3.09 |
| **PFHpS** | | N/A | 9.30 | U | | 8.24 | 88.6 | 10.8 |
| **PFOS** | | N/A | 9.30 | | 0.852 | 8.53 | 82.6 | 8.57 |
| **PFNS** | | N/A | 9.30 | U | | 9.05 | 97.3 | 8.81 |
| **PFDS** | | N/A | 9.30 | U | | 8.28 | 89.0 | 9.85 |
| **PFDoS** | | N/A | 9.30 | U | | 8.40 | 90.3 | 7.01 |
| **4:2 FTS** | | N/A | 37.2 | U | | 38.9 | 105 | 5.99 |
| **6:2 FTS** | | N/A | 33.5 | U | | 32.5 | 97.0 | 1.34 |
| **8:2 FTS** | | N/A | 37.2 | U | | 37.0 | 99.4 | 8.30 |
| **PFOSA** | | N/A | 9.30 | U | | 8.75 | 94.1 | 7.23 |
| **N-MeFOSA** | | N/A | 10.7 | U | | 10.9 | 102 | 7.58 |
| **N-EtFOSA** | | N/A | 23.2 | U | | 20.2 | 86.7 | 16.3 |
| **MeFOSAA** | | N/A | 9.30 | U | | 9.77 | 105 | 0.420 |
| **EtFOSAA** | | N/A | 9.30 | U | | 9.89 | 106 | 7.71 |
| **N-MeFOSE** | | N/A | 93.0 | U | | 94.6 | 102 | 4.39 |
| **N-EtFOSE** | | N/A | 69.7 | U | | 68.5 | 98.2 | 4.50 |
| **HFPO-DA** | | N/A | 35.3 | U | | 35.2 | 99.5 | 2.15 |
| **ADONA** | | N/A | 37.2 | U | | 38.0 | 102 | 8.94 |
| **9Cl-PF3ONS** | | N/A | 37.2 | U | | 42.3 | 114 | 2.21 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 37.2 | U | | 40.7 | 109 | 2.27 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 23-Jun-2020 11:55:26; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72424-103_L33050-45_Form8C.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720 (MS)**
**Sample Collection: 27-Apr-2020 12:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72424-103 i (MS) |
| **Matrix:** | SOLID | **Sample Size:** | 5.38 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 21:11:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 24.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 36.6 | 0.298 (L) | 1:55 |
| **PFPeA** | | 17.8 | 0.149 (L) | 4:21 |
| **PFHxA** | | 8.75 | 0.0744 (L) | 4:56 |
| **PFHpA** | | 8.97 | 0.0744 (L) | 5:24 |
| **PFOA** | | 8.37 | 0.0744 (L) | |
| **PFNA** | | 9.13 | 0.0744 (L) | |
| **PFDA** | | 8.36 | 0.0744 (L) | 7:30 |
| **PFUnA** | | 8.52 | 0.0744 (L) | 7:50 |
| **PFDoA** | | 8.97 | 0.0744 (L) | 8:06 |
| **PFTrDA** | | 8.00 | 0.0744 (L) | 8:26 |
| **PFTeDA** | | 8.89 | 0.0744 (L) | 8:51 |
| **PFBS** | | 8.65 | 0.0744 (L) | 4:54 |
| **PFPeS** | | 9.33 | 0.0744 (L) | 5:26 |
| **PFHxS** | | 8.88 | 0.0744 (L) | |
| **PFHpS** | | 8.24 | 0.0744 (L) | 7:07 |
| **PFOS** | | 8.53 | 0.0744 (L) | |
| **PFNS** | | 9.05 | 0.0744 (L) | 7:55 |
| **PFDS** | | 8.28 | 0.0744 (L) | 8:13 |
| **PFDoS** | | 8.40 | 0.0744 (L) | 9:02 |
| **4:2 FTS** | | 38.9 | 0.298 (L) | 4:49 |
| **6:2 FTS** | | 32.5 | 0.268 (L) | 5:51 |
| **8:2 FTS** | | 37.0 | 0.298 (L) | 7:20 |
| **PFOSA** | | 8.75 | 0.0744 (L) | |
| **N-MeFOSA** | | 10.9 | 0.0856 (L) | |
| **N-EtFOSA** | | 20.2 | 0.186 (L) | |
| **MeFOSAA** | | 9.77 | 0.0744 (L) | |
| **EtFOSAA** | | 9.89 | 0.0744 (L) | |
| **N-MeFOSE** | | 94.6 | 0.744 (L) | |
| **N-EtFOSE** | | 68.5 | 0.558 (L) | |
| **HFPO-DA** | | 35.2 | 0.283 (L) | 5:05 |
| **ADONA** | | 38.0 | 0.298 (L) | 5:38 |
| **9Cl-PF3ONS** | | 42.3 | 0.298 (L) | 7:50 |
| **11Cl-PF3OUdS** | | 40.7 | 0.298 (L) | 8:28 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72424-103_Form1A_FC0L_174S26_SJ2749950.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720 (MS)**
**Sample Collection: 27-Apr-2020 12:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG72424-103 i (MS) |
| **Sample Receipt Date:** | 08-May-2020 | **Sample Size:** | 5.38 g (dry) |
| **Extraction Date:** | 28-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 02-Jun-2020 **Time:** 21:11:18 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_174 S: 26** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Concentration Units:** | ng absolute | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| | | **% Moisture:** | 24.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.8 | 94.5 | 1:54 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 102 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.01 | 90.1 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.24 | 92.4 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.2 | 7:00 |
| **13C6-PFDA** | | 5.00 | 5.37 | 107 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.16 | 103 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 5.59 | 112 | 8:06 |
| **13C2-PFTeDA** | | 5.00 | 4.87 | 97.3 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.2 | 102 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.59 | 95.9 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.6 | 106 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 15.7 | 78.4 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 14.2 | 70.9 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 17.1 | 85.4 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 4.86 | 48.6 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.26 | 42.6 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.4 | 112 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 23.3 | 117 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 82.1 | 82.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 85.1 | 85.1 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 35.1 | 87.6 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72424-103_Form2_FC0L_174S26_SJ2749950.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720 (MSD)**
**Sample Collection:**
**27-Apr-2020 14:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72423-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.20 g (dry) |
| **Extraction Date:** | 27-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-May-2020 **Time:** 01:43:43 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_169 S: 40** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_169 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 38.5 | J | 0.360 | 37.4 | 96.2 | 3.62 |
| **PFPeA** | | N/A | 19.2 | U | | 18.6 | 96.7 | 2.52 |
| **PFHxA** | | N/A | 9.62 | U | | 9.07 | 94.3 | 1.10 |
| **PFHpA** | | N/A | 9.62 | U | | 8.46 | 88.0 | 9.40 |
| **PFOA** | | N/A | 9.62 | J | 0.126 | 8.59 | 88.0 | 4.49 |
| **PFNA** | | N/A | 9.62 | U | | 10.0 | 104 | 0.251 |
| **PFDA** | | N/A | 9.62 | U | | 9.31 | 96.8 | 2.30 |
| **PFUnA** | | N/A | 9.62 | U | | 9.43 | 98.0 | 0.960 |
| **PFDoA** | | N/A | 9.62 | U | | 9.12 | 94.9 | 12.7 |
| **PFTrDA** | | N/A | 9.62 | U | | 8.75 | 91.0 | 3.64 |
| **PFTeDA** | | N/A | 9.62 | U | | 9.04 | 94.0 | 7.38 |
| **PFBS** | | N/A | 9.62 | U | | 8.25 | 85.8 | 9.59 |
| **PFPeS** | | N/A | 9.62 | U | | 9.45 | 98.3 | 10.5 |
| **PFHxS** | | N/A | 9.62 | U | | 8.92 | 92.8 | 3.19 |
| **PFHpS** | | N/A | 9.62 | U | | 8.61 | 89.5 | 8.01 |
| **PFOS** | | N/A | 9.62 | | 1.34 | 9.42 | 84.0 | 4.29 |
| **PFNS** | | N/A | 9.62 | U | | 9.13 | 94.9 | 4.66 |
| **PFDS** | | N/A | 9.62 | U | | 8.78 | 91.3 | 0.269 |
| **PFDoS** | | N/A | 9.62 | U | | 8.56 | 89.0 | 6.53 |
| **4:2 FTS** | | N/A | 38.5 | U | | 38.9 | 101 | 6.82 |
| **6:2 FTS** | | N/A | 34.7 | U | | 31.6 | 91.3 | 5.11 |
| **8:2 FTS** | | N/A | 38.5 | U | | 35.9 | 93.2 | 1.96 |
| **PFOSA** | | N/A | 9.62 | U | | 9.23 | 96.0 | 2.26 |
| **N-MeFOSA** | | N/A | 11.1 | U | | 11.1 | 100 | 5.81 |
| **N-EtFOSA** | | N/A | 24.0 | U | | 21.2 | 88.0 | 8.31 |
| **MeFOSAA** | | N/A | 9.62 | U | | 9.54 | 99.2 | 2.24 |
| **EtFOSAA** | | N/A | 9.62 | U | | 9.17 | 95.3 | 5.74 |
| **N-MeFOSE** | | N/A | 96.2 | U | | 92.7 | 96.4 | 5.33 |
| **N-EtFOSE** | | N/A | 72.1 | U | | 70.2 | 97.3 | 5.73 |
| **HFPO-DA** | | N/A | 36.5 | U | | 35.9 | 98.4 | 3.62 |
| **ADONA** | | N/A | 38.5 | U | | 39.8 | 103 | 3.54 |
| **9Cl-PF3ONS** | | N/A | 38.5 | U | | 40.5 | 105 | 4.21 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 38.5 | U | | 38.5 | 100 | 1.88 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 23-Jun-2020 10:17:49; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72423-104_L33050-32_Form8E.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720 (MSD)**
**Sample Collection:**
**27-Apr-2020 14:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | WG72423-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.20 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:43:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 22.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 37.4 | 0.308 (L) | 1:57 |
| **PFPeA** | | 18.6 | 0.154 (L) | 4:22 |
| **PFHxA** | | 9.07 | 0.0769 (L) | 4:57 |
| **PFHpA** | | 8.46 | 0.0769 (L) | 5:25 |
| **PFOA** | | 8.59 | 0.0769 (L) | |
| **PFNA** | | 10.0 | 0.0769 (L) | |
| **PFDA** | | 9.31 | 0.0769 (L) | 7:31 |
| **PFUnA** | | 9.43 | 0.0769 (L) | 7:50 |
| **PFDoA** | | 9.12 | 0.0769 (L) | 8:07 |
| **PFTrDA** | | 8.75 | 0.0769 (L) | 8:27 |
| **PFTeDA** | | 9.04 | 0.0769 (L) | 8:53 |
| **PFBS** | | 8.25 | 0.0769 (L) | 4:54 |
| **PFPeS** | | 9.45 | 0.0769 (L) | 5:27 |
| **PFHxS** | | 8.92 | 0.0769 (L) | |
| **PFHpS** | | 8.61 | 0.0769 (L) | 7:08 |
| **PFOS** | | 9.42 | 0.0769 (L) | |
| **PFNS** | | 9.13 | 0.0769 (L) | 7:56 |
| **PFDS** | | 8.78 | 0.0769 (L) | 8:14 |
| **PFDoS** | | 8.56 | 0.0769 (L) | 9:04 |
| **4:2 FTS** | | 38.9 | 0.308 (L) | 4:49 |
| **6:2 FTS** | | 31.6 | 0.277 (L) | 5:53 |
| **8:2 FTS** | | 35.9 | 0.308 (L) | 7:21 |
| **PFOSA** | | 9.23 | 0.0769 (L) | |
| **N-MeFOSA** | | 11.1 | 0.0885 (L) | |
| **N-EtFOSA** | | 21.2 | 0.192 (L) | |
| **MeFOSAA** | | 9.54 | 0.0769 (L) | |
| **EtFOSAA** | | 9.17 | 0.0769 (L) | |
| **N-MeFOSE** | | 92.7 | 0.769 (L) | |
| **N-EtFOSE** | | 70.2 | 0.577 (L) | |
| **HFPO-DA** | | 35.9 | 0.292 (L) | 5:06 |
| **ADONA** | | 39.8 | 0.308 (L) | 5:39 |
| **9Cl-PF3ONS** | | 40.5 | 0.308 (L) | 7:50 |
| **11Cl-PF3OUdS** | | 38.5 | 0.308 (L) | 8:29 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72423-104_Form1A_FC0L_169S40_SJ2749333.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP16-SED-0-6-03-042720 (MSD)**
**Sample Collection:**
**27-Apr-2020 14:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72423-104 (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.20 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 27-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-May-2020 **Time:** 01:43:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_169 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_169 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_169 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 22.3 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.9 | 92.4 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 102 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.94 | 99.4 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.62 | 96.2 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.07 | 90.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.37 | 87.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.82 | 96.4 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.27 | 85.4 | 7:50 |
| **13C2-PFDoA** | | 5.00 | 4.59 | 91.8 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.24 | 84.8 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.4 | 104 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.55 | 95.5 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 14.5 | 72.6 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 14.2 | 71.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 16.0 | 80.1 | 7:21 |
| **13C8-PFOSA** | | 10.0 | 8.88 | 88.8 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.13 | 61.3 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.10 | 51.0 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.2 | 106 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.4 | 112 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 86.3 | 86.3 | 9:57 |
| **d9-NEt-FOSE** | | 100 | 89.3 | 89.3 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 37.1 | 92.6 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72423-104_Form2_FC0L_169S40_SJ2749333.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720 (MSD)**
**Sample Collection: 27-Apr-2020 12:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72424-104 i (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.17 g (dry) |
| **Extraction Date:** | 28-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 02-Jun-2020 **Time:** 21:24:23 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_174 S: 27** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_174 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/g) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/g) | CONC. FOUND (ng/g) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 38.7 | | 0.787 | 38.4 | 97.2 | 4.65 |
| **PFPeA** | | N/A | 19.4 | U | | 18.5 | 95.6 | 3.94 |
| **PFHxA** | | N/A | 9.68 | U | | 9.24 | 95.5 | 5.41 |
| **PFHpA** | | N/A | 9.68 | U | | 9.15 | 94.6 | 2.05 |
| **PFOA** | | N/A | 9.68 | | 0.329 | 8.56 | 85.1 | 2.30 |
| **PFNA** | | N/A | 9.68 | U | | 9.57 | 98.9 | 4.70 |
| **PFDA** | | N/A | 9.68 | U | | 8.87 | 91.7 | 5.92 |
| **PFUnA** | | N/A | 9.68 | U | | 9.29 | 96.0 | 8.65 |
| **PFDoA** | | N/A | 9.68 | U | | 9.68 | 100 | 7.53 |
| **PFTrDA** | | N/A | 9.68 | U | | 8.82 | 91.2 | 9.75 |
| **PFTeDA** | | N/A | 9.68 | U | | 9.37 | 96.8 | 5.28 |
| **PFBS** | | N/A | 9.68 | U | | 8.99 | 93.0 | 3.87 |
| **PFPeS** | | N/A | 9.68 | U | | 9.50 | 98.2 | 1.74 |
| **PFHxS** | | N/A | 9.68 | U | | 9.15 | 94.6 | 3.09 |
| **PFHpS** | | N/A | 9.68 | U | | 9.19 | 95.0 | 10.8 |
| **PFOS** | | N/A | 9.68 | | 0.852 | 9.29 | 87.3 | 8.57 |
| **PFNS** | | N/A | 9.68 | U | | 8.29 | 85.7 | 8.81 |
| **PFDS** | | N/A | 9.68 | U | | 9.14 | 94.4 | 9.85 |
| **PFDoS** | | N/A | 9.68 | U | | 9.01 | 93.1 | 7.01 |
| **4:2 FTS** | | N/A | 38.7 | U | | 41.3 | 107 | 5.99 |
| **6:2 FTS** | | N/A | 34.9 | U | | 33.0 | 94.5 | 1.34 |
| **8:2 FTS** | | N/A | 38.7 | U | | 40.2 | 104 | 8.30 |
| **PFOSA** | | N/A | 9.68 | U | | 9.41 | 97.3 | 7.23 |
| **N-MeFOSA** | | N/A | 11.1 | U | | 11.7 | 106 | 7.58 |
| **N-EtFOSA** | | N/A | 24.2 | U | | 23.7 | 98.1 | 16.3 |
| **MeFOSAA** | | N/A | 9.68 | U | | 9.73 | 101 | 0.420 |
| **EtFOSAA** | | N/A | 9.68 | U | | 9.16 | 94.7 | 7.71 |
| **N-MeFOSE** | | N/A | 96.8 | U | | 98.9 | 102 | 4.39 |
| **N-EtFOSE** | | N/A | 72.5 | U | | 71.6 | 98.8 | 4.50 |
| **HFPO-DA** | | N/A | 36.8 | U | | 35.9 | 97.8 | 2.15 |
| **ADONA** | | N/A | 38.7 | U | | 41.5 | 107 | 8.94 |
| **9Cl-PF3ONS** | | N/A | 38.7 | U | | 41.4 | 107 | 2.21 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/g) | LAB FLAG [1] | CONC (ng/g) | FOUND (ng/g) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 38.7 | U | | 41.6 | 108 | 2.27 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 23-Jun-2020 11:55:26; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72424-104_L33050-45_Form8E.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720 (MSD)**
**Sample Collection: 27-Apr-2020 12:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72424-104 i (MSD) |
| **Matrix:** | SOLID | **Sample Size:** | 5.17 g (dry) |
| **Sample Receipt Date:** | 08-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 28-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jun-2020 **Time:** 21:24:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_174 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 27.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 38.4 | 0.310 (L) | 1:55 |
| **PFPeA** | | 18.5 | 0.155 (L) | 4:21 |
| **PFHxA** | | 9.24 | 0.0774 (L) | 4:56 |
| **PFHpA** | | 9.15 | 0.0774 (L) | 5:24 |
| **PFOA** | | 8.56 | 0.0774 (L) | |
| **PFNA** | | 9.57 | 0.0774 (L) | |
| **PFDA** | | 8.87 | 0.0774 (L) | 7:30 |
| **PFUnA** | | 9.29 | 0.0774 (L) | 7:49 |
| **PFDoA** | | 9.68 | 0.0774 (L) | 8:05 |
| **PFTrDA** | | 8.82 | 0.0774 (L) | 8:26 |
| **PFTeDA** | | 9.37 | 0.0774 (L) | 8:51 |
| **PFBS** | | 8.99 | 0.0774 (L) | 4:54 |
| **PFPeS** | | 9.50 | 0.0774 (L) | 5:26 |
| **PFHxS** | | 9.15 | 0.0774 (L) | |
| **PFHpS** | | 9.19 | 0.0774 (L) | 7:07 |
| **PFOS** | | 9.29 | 0.0774 (L) | |
| **PFNS** | | 8.29 | 0.0774 (L) | 7:55 |
| **PFDS** | | 9.14 | 0.0774 (L) | 8:12 |
| **PFDoS** | | 9.01 | 0.0774 (L) | 9:02 |
| **4:2 FTS** | | 41.3 | 0.310 (L) | 4:49 |
| **6:2 FTS** | | 33.0 | 0.279 (L) | 5:51 |
| **8:2 FTS** | | 40.2 | 0.310 (L) | 7:20 |
| **PFOSA** | | 9.41 | 0.0774 (L) | |
| **N-MeFOSA** | | 11.7 | 0.0890 (L) | |
| **N-EtFOSA** | | 23.7 | 0.194 (L) | |
| **MeFOSAA** | | 9.73 | 0.0774 (L) | |
| **EtFOSAA** | | 9.16 | 0.0774 (L) | |
| **N-MeFOSE** | | 98.9 | 0.774 (L) | |
| **N-EtFOSE** | | 71.6 | 0.581 (L) | |
| **HFPO-DA** | | 35.9 | 0.294 (L) | 5:05 |
| **ADONA** | | 41.5 | 0.310 (L) | 5:38 |
| **9Cl-PF3ONS** | | 41.4 | 0.310 (L) | 7:49 |
| **11Cl-PF3OUdS** | | 41.6 | 0.310 (L) | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72424-104_Form1A_FC0L_174S27_SJ2749951.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB3-SED-COMP-0-6-03-042720 (MSD)**
**Sample Collection: 27-Apr-2020 12:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG72424-104 i (MSD) |
| **Sample Receipt Date:** | 08-May-2020 | **Sample Size:** | 5.17 g (dry) |
| **Extraction Date:** | 28-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 02-Jun-2020 **Time:** 21:24:23 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_174 S: 27** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_174 S: 18 |
| **Concentration Units:** | ng absolute | **Cal. Ver. Data Filename:** | FC0L_174 S: 12 |
| | | **% Moisture:** | 27.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.1 | 95.1 | 1:55 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 105 | 4:21 |
| **13C5-PFHxA** | | 10.0 | 9.87 | 98.7 | 4:56 |
| **13C4-PFHpA** | | 10.0 | 9.14 | 91.4 | 5:24 |
| **13C8-PFOA** | | 10.0 | 9.70 | 97.0 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.69 | 93.9 | 7:00 |
| **13C6-PFDA** | | 5.00 | 5.29 | 106 | 7:30 |
| **13C7-PFUnA** | | 5.00 | 5.21 | 104 | 7:49 |
| **13C2-PFDoA** | | 5.00 | 5.11 | 102 | 8:05 |
| **13C2-PFTeDA** | | 5.00 | 4.89 | 97.7 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.77 | 97.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.6 | 106 | 7:36 |
| **13C2-4:2 FTS** | | 20.0 | 16.0 | 80.2 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 14.2 | 71.1 | 5:51 |
| **13C2-8:2 FTS** | | 20.0 | 16.6 | 82.8 | 7:20 |
| **13C8-PFOSA** | | 10.0 | 10.5 | 105 | 8:40 |
| **D3-N-MeFOSA** | | 10.0 | 5.08 | 50.8 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.09 | 40.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 24.6 | 123 | 7:33 |
| **D5-EtFOSAA** | | 20.0 | 27.7 | 138 | 7:41 |
| **d7-NMe-FOSE** | | 100 | 86.5 | 86.5 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 88.5 | 88.5 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 36.3 | 90.8 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72424-104_Form2_FC0L_174S27_SJ2749951.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87674.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3B.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3B_GS87674.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87674.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87674.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_169 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 28-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 19:38:19 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 39.0 | 97.6 |
| **PFPeA** | | 4:22 | 20.0 | 19.4 | 96.8 |
| **PFHxA** | | 4:57 | 10.0 | 9.70 | 97.0 |
| **PFHpA** | | 5:26 | 10.0 | 9.52 | 95.2 |
| **PFOA** | | 6:12 | 10.0 | 9.19 | 91.9 |
| **PFNA** | | 7:02 | 10.0 | 9.68 | 96.8 |
| **PFDA** | | 7:32 | 10.0 | 9.50 | 95.0 |
| **PFUnA** | | 7:51 | 10.0 | 9.48 | 94.8 |
| **PFDoA** | | 8:08 | 10.0 | 10.2 | 102 |
| **PFTrDA** | | 8:28 | 10.0 | 9.32 | 93.2 |
| **PFTeDA** | | 8:54 | 10.0 | 9.75 | 97.5 |
| **PFBS** | | 4:55 | 10.0 | 9.39 | 93.9 |
| **PFPeS** | | 5:28 | 10.0 | 10.3 | 103 |
| **PFHxS** | | 6:19 | 10.0 | 9.61 | 96.1 |
| **PFHpS** | | 7:09 | 10.0 | 9.22 | 92.2 |
| **PFOS** | | 7:38 | 10.0 | 9.02 | 90.2 |
| **PFNS** | | 7:56 | 10.0 | 10.6 | 106 |
| **PFDS** | | 8:15 | 10.0 | 9.65 | 96.5 |
| **PFDoS** | | 9:05 | 10.0 | 9.32 | 93.2 |
| **4:2 FTS** | | 4:50 | 40.0 | 44.9 | 112 |
| **6:2 FTS** | | 5:53 | 36.0 | 33.6 | 93.4 |
| **8:2 FTS** | | 7:22 | 40.0 | 38.1 | 95.3 |
| **PFOSA** | | 8:42 | 10.0 | 9.70 | 97.0 |
| **N-MeFOSA** | | 10:06 | 11.5 | 11.8 | 103 |
| **N-EtFOSA** | | 10:24 | 25.0 | 22.9 | 91.8 |
| **MeFOSAA** | | 7:35 | 10.0 | 9.97 | 99.7 |
| **EtFOSAA** | | 7:43 | 10.0 | 9.82 | 98.2 |
| **N-MeFOSE** | | 9:59 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:17 | 75.0 | 76.6 | 102 |
| **HFPO-DA** | | 5:06 | 40.0 | 38.7 | 96.8 |
| **ADONA** | | 5:40 | 40.0 | 44.2 | 111 |
| **9Cl-PF3ONS** | | 7:51 | 40.0 | 46.1 | 115 |
| **11Cl-PF3OUdS** | | 8:30 | 40.0 | 44.4 | 111 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_169S12__Form4A_SJ2749301.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_169 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 28-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 19:38:19 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:58 | 40.0 | 39.2 | 97.9 |
| **13C5-PFPeA** | | 4:22 | 20.0 | 22.0 | 110 |
| **13C5-PFHxA** | | 4:57 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:26 | 10.0 | 10.1 | 101 |
| **13C8-PFOA** | | 6:12 | 10.0 | 10.1 | 101 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.97 | 99.4 |
| **13C6-PFDA** | | 7:32 | 5.00 | 5.30 | 106 |
| **13C7-PFUnA** | | 7:51 | 5.00 | 5.61 | 112 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.36 | 107 |
| **13C2-PFTeDA** | | 8:54 | 5.00 | 4.76 | 95.1 |
| **13C3-PFBS** | | 4:55 | 9.18 | 9.62 | 105 |
| **13C3-PFHxS** | | 6:19 | 10.0 | 9.92 | 99.2 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.9 | 109 |
| **13C2-4:2 FTS** | | 4:50 | 20.0 | 14.5 | 72.3 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 16.0 | 80.1 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 17.2 | 86.1 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 10.0 | 100 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 11.2 | 112 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 11.1 | 111 |
| **D3-MeFOSAA** | | 7:34 | 20.0 | 19.8 | 99.1 |
| **D5-EtFOSAA** | | 7:43 | 20.0 | 21.5 | 108 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 106 | 106 |
| **d9-NEt-FOSE** | | 10:16 | 100 | 108 | 108 |
| **13C3-HFPO-DA** | | 5:06 | 40.0 | 38.2 | 95.6 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_169S12__Form4B_SJ2749301.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_169 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:56:48 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 38.8 | 97.0 |
| **PFPeA** | | 4:22 | 20.0 | 19.5 | 97.3 |
| **PFHxA** | | 4:57 | 10.0 | 9.66 | 96.6 |
| **PFHpA** | | 5:25 | 10.0 | 9.34 | 93.4 |
| **PFOA** | | 6:12 | 10.0 | 9.09 | 90.9 |
| **PFNA** | | 7:02 | 10.0 | 9.42 | 94.2 |
| **PFDA** | | 7:31 | 10.0 | 9.42 | 94.2 |
| **PFUnA** | | 7:50 | 10.0 | 9.86 | 98.6 |
| **PFDoA** | | 8:07 | 10.0 | 9.79 | 97.9 |
| **PFTrDA** | | 8:27 | 10.0 | 9.27 | 92.7 |
| **PFTeDA** | | 8:53 | 10.0 | 9.96 | 99.6 |
| **PFBS** | | 4:54 | 10.0 | 9.43 | 94.3 |
| **PFPeS** | | 5:27 | 10.0 | 10.6 | 106 |
| **PFHxS** | | 6:19 | 10.0 | 9.66 | 96.6 |
| **PFHpS** | | 7:08 | 10.0 | 9.30 | 93.0 |
| **PFOS** | | 7:37 | 10.0 | 9.00 | 90.0 |
| **PFNS** | | 7:56 | 10.0 | 9.97 | 99.7 |
| **PFDS** | | 8:14 | 10.0 | 9.07 | 90.7 |
| **PFDoS** | | 9:04 | 10.0 | 9.00 | 90.0 |
| **4:2 FTS** | | 4:49 | 40.0 | 41.3 | 103 |
| **6:2 FTS** | | 5:52 | 36.0 | 33.3 | 92.6 |
| **8:2 FTS** | | 7:21 | 40.0 | 40.3 | 101 |
| **PFOSA** | | 8:41 | 10.0 | 10.0 | 100 |
| **N-MeFOSA** | | 10:06 | 11.5 | 12.1 | 105 |
| **N-EtFOSA** | | 10:24 | 25.0 | 24.3 | 97.3 |
| **MeFOSAA** | | 7:34 | 10.0 | 10.3 | 103 |
| **EtFOSAA** | | 7:42 | 10.0 | 10.1 | 101 |
| **N-MeFOSE** | | 9:59 | 100 | 101 | 101 |
| **N-EtFOSE** | | 10:17 | 75.0 | 74.5 | 99.3 |
| **HFPO-DA** | | 5:06 | 40.0 | 37.7 | 94.3 |
| **ADONA** | | 5:39 | 40.0 | 43.3 | 108 |
| **9Cl-PF3ONS** | | 7:50 | 40.0 | 44.6 | 112 |
| **11Cl-PF3OUdS** | | 8:29 | 40.0 | 41.2 | 103 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_169S41__Form4A_SJ2749334.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_169 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:56:48 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:57 | 40.0 | 39.4 | 98.6 |
| **13C5-PFPeA** | | 4:22 | 20.0 | 20.7 | 104 |
| **13C5-PFHxA** | | 4:57 | 10.0 | 9.86 | 98.6 |
| **13C4-PFHpA** | | 5:25 | 10.0 | 10.9 | 109 |
| **13C8-PFOA** | | 6:12 | 10.0 | 10.2 | 102 |
| **13C9-PFNA** | | 7:01 | 5.00 | 4.92 | 98.5 |
| **13C6-PFDA** | | 7:31 | 5.00 | 5.62 | 112 |
| **13C7-PFUnA** | | 7:50 | 5.00 | 5.36 | 107 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.53 | 111 |
| **13C2-PFTeDA** | | 8:53 | 5.00 | 4.75 | 95.0 |
| **13C3-PFBS** | | 4:54 | 9.18 | 9.81 | 107 |
| **13C3-PFHxS** | | 6:18 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:37 | 10.0 | 10.9 | 109 |
| **13C2-4:2 FTS** | | 4:49 | 20.0 | 16.0 | 80.1 |
| **13C2-6:2 FTS** | | 5:52 | 20.0 | 17.0 | 85.2 |
| **13C2-8:2 FTS** | | 7:21 | 20.0 | 17.4 | 87.2 |
| **13C8-PFOSA** | | 8:41 | 10.0 | 9.78 | 97.8 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 10.9 | 109 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 10.7 | 107 |
| **D3-MeFOSAA** | | 7:34 | 20.0 | 20.6 | 103 |
| **D5-EtFOSAA** | | 7:42 | 20.0 | 20.4 | 102 |
| **d7-NMe-FOSE** | | 9:57 | 100 | 108 | 108 |
| **d9-NEt-FOSE** | | 10:15 | 100 | 112 | 112 |
| **13C3-HFPO-DA** | | 5:06 | 40.0 | 38.0 | 95.0 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 10:06:26; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_169S41__Form4B_SJ2749334.html; Workgroup: WG72423; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_174 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 18:08:24 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:56 | 40.0 | 39.7 | 99.2 |
| **PFPeA** | | 4:22 | 20.0 | 19.1 | 95.6 |
| **PFHxA** | | 4:56 | 10.0 | 9.74 | 97.4 |
| **PFHpA** | | 5:24 | 10.0 | 10.2 | 102 |
| **PFOA** | | 6:11 | 10.0 | 9.23 | 92.3 |
| **PFNA** | | 7:01 | 10.0 | 10.1 | 101 |
| **PFDA** | | 7:30 | 10.0 | 9.93 | 99.3 |
| **PFUnA** | | 7:50 | 10.0 | 10.2 | 102 |
| **PFDoA** | | 8:06 | 10.0 | 9.79 | 97.9 |
| **PFTrDA** | | 8:26 | 10.0 | 9.09 | 90.9 |
| **PFTeDA** | | 8:51 | 10.0 | 10.1 | 101 |
| **PFBS** | | 4:54 | 10.0 | 9.57 | 95.7 |
| **PFPeS** | | 5:27 | 10.0 | 11.0 | 110 |
| **PFHxS** | | 6:17 | 10.0 | 9.54 | 95.4 |
| **PFHpS** | | 7:07 | 10.0 | 10.1 | 101 |
| **PFOS** | | 7:36 | 10.0 | 9.29 | 92.9 |
| **PFNS** | | 7:55 | 10.0 | 10.3 | 103 |
| **PFDS** | | 8:13 | 10.0 | 9.71 | 97.1 |
| **PFDoS** | | 9:02 | 10.0 | 9.82 | 98.2 |
| **4:2 FTS** | | 4:49 | 40.0 | 43.4 | 108 |
| **6:2 FTS** | | 5:51 | 36.0 | 34.8 | 96.7 |
| **8:2 FTS** | | 7:21 | 40.0 | 39.9 | 99.7 |
| **PFOSA** | | 8:40 | 10.0 | 9.94 | 99.4 |
| **N-MeFOSA** | | 10:06 | 11.5 | 12.1 | 105 |
| **N-EtFOSA** | | 10:23 | 25.0 | 24.2 | 96.7 |
| **MeFOSAA** | | 7:33 | 10.0 | 11.0 | 110 |
| **EtFOSAA** | | 7:42 | 10.0 | 9.76 | 97.6 |
| **N-MeFOSE** | | 9:59 | 100 | 103 | 103 |
| **N-EtFOSE** | | 10:17 | 75.0 | 75.5 | 101 |
| **HFPO-DA** | | 5:05 | 40.0 | 38.4 | 96.1 |
| **ADONA** | | 5:38 | 40.0 | 43.6 | 109 |
| **9Cl-PF3ONS** | | 7:50 | 40.0 | 42.3 | 106 |
| **11Cl-PF3OUdS** | | 8:28 | 40.0 | 39.6 | 99.0 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_174S12__Form4A_SJ2749932.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_174 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 18:08:24 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:56 | 40.0 | 39.1 | 97.7 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.2 | 106 |
| **13C5-PFHxA** | | 4:56 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:24 | 10.0 | 10.4 | 104 |
| **13C8-PFOA** | | 6:10 | 10.0 | 9.97 | 99.7 |
| **13C9-PFNA** | | 7:01 | 5.00 | 4.99 | 99.8 |
| **13C6-PFDA** | | 7:30 | 5.00 | 5.47 | 109 |
| **13C7-PFUnA** | | 7:50 | 5.00 | 5.14 | 103 |
| **13C2-PFDoA** | | 8:06 | 5.00 | 5.32 | 106 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.78 | 95.7 |
| **13C3-PFBS** | | 4:54 | 9.18 | 10.4 | 113 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.4 | 104 |
| **13C8-PFOS** | | 7:36 | 10.0 | 10.6 | 106 |
| **13C2-4:2 FTS** | | 4:49 | 20.0 | 16.5 | 82.4 |
| **13C2-6:2 FTS** | | 5:51 | 20.0 | 17.4 | 87.0 |
| **13C2-8:2 FTS** | | 7:21 | 20.0 | 18.0 | 90.2 |
| **13C8-PFOSA** | | 8:40 | 10.0 | 10.5 | 105 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 10.4 | 104 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 10.6 | 106 |
| **D3-MeFOSAA** | | 7:33 | 20.0 | 20.2 | 101 |
| **D5-EtFOSAA** | | 7:41 | 20.0 | 21.2 | 106 |
| **d7-NMe-FOSE** | | 9:57 | 100 | 98.9 | 98.9 |
| **d9-NEt-FOSE** | | 10:15 | 100 | 99.9 | 99.9 |
| **13C3-HFPO-DA** | | 5:05 | 40.0 | 37.5 | 93.8 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_174S12__Form4B_SJ2749932.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_174 S: 28 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 21:37:20 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:56 | 40.0 | 39.9 | 99.8 |
| **PFPeA** | | 4:21 | 20.0 | 19.8 | 99.0 |
| **PFHxA** | | 4:56 | 10.0 | 9.48 | 94.8 |
| **PFHpA** | | 5:24 | 10.0 | 9.73 | 97.3 |
| **PFOA** | | 6:10 | 10.0 | 9.30 | 93.0 |
| **PFNA** | | 7:01 | 10.0 | 9.69 | 96.9 |
| **PFDA** | | 7:30 | 10.0 | 9.47 | 94.7 |
| **PFUnA** | | 7:50 | 10.0 | 9.29 | 92.9 |
| **PFDoA** | | 8:06 | 10.0 | 10.5 | 105 |
| **PFTrDA** | | 8:26 | 10.0 | 9.50 | 95.0 |
| **PFTeDA** | | 8:51 | 10.0 | 9.79 | 97.9 |
| **PFBS** | | 4:54 | 10.0 | 9.40 | 94.0 |
| **PFPeS** | | 5:26 | 10.0 | 10.1 | 101 |
| **PFHxS** | | 6:17 | 10.0 | 9.38 | 93.8 |
| **PFHpS** | | 7:07 | 10.0 | 9.59 | 95.9 |
| **PFOS** | | 7:36 | 10.0 | 8.78 | 87.8 |
| **PFNS** | | 7:55 | 10.0 | 10.0 | 100 |
| **PFDS** | | 8:13 | 10.0 | 9.64 | 96.4 |
| **PFDoS** | | 9:02 | 10.0 | 9.06 | 90.6 |
| **4:2 FTS** | | 4:49 | 40.0 | 41.9 | 105 |
| **6:2 FTS** | | 5:51 | 36.0 | 34.0 | 94.4 |
| **8:2 FTS** | | 7:20 | 40.0 | 40.7 | 102 |
| **PFOSA** | | 8:40 | 10.0 | 9.81 | 98.1 |
| **N-MeFOSA** | | 10:06 | 11.5 | 11.9 | 103 |
| **N-EtFOSA** | | 10:23 | 25.0 | 23.8 | 95.2 |
| **MeFOSAA** | | 7:33 | 10.0 | 10.1 | 101 |
| **EtFOSAA** | | 7:42 | 10.0 | 9.81 | 98.1 |
| **N-MeFOSE** | | 9:59 | 100 | 101 | 101 |
| **N-EtFOSE** | | 10:17 | 75.0 | 76.7 | 102 |
| **HFPO-DA** | | 5:05 | 40.0 | 42.1 | 105 |
| **ADONA** | | 5:38 | 40.0 | 44.1 | 110 |
| **9Cl-PF3ONS** | | 7:50 | 40.0 | 46.9 | 117 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 43.7 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_174S28__Form4A_SJ2749952.html; Workgroup: WG72424; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_174 S: 28 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 21:37:20 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:55 | 40.0 | 39.0 | 97.5 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.7 | 108 |
| **13C5-PFHxA** | | 4:56 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:24 | 10.0 | 10.1 | 101 |
| **13C8-PFOA** | | 6:10 | 10.0 | 9.93 | 99.3 |
| **13C9-PFNA** | | 7:00 | 5.00 | 4.94 | 98.8 |
| **13C6-PFDA** | | 7:30 | 5.00 | 5.50 | 110 |
| **13C7-PFUnA** | | 7:50 | 5.00 | 5.41 | 108 |
| **13C2-PFDoA** | | 8:06 | 5.00 | 5.15 | 103 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.75 | 94.9 |
| **13C3-PFBS** | | 4:54 | 9.18 | 10.1 | 110 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.2 | 102 |
| **13C8-PFOS** | | 7:36 | 10.0 | 10.5 | 105 |
| **13C2-4:2 FTS** | | 4:49 | 20.0 | 17.1 | 85.7 |
| **13C2-6:2 FTS** | | 5:51 | 20.0 | 17.5 | 87.4 |
| **13C2-8:2 FTS** | | 7:20 | 20.0 | 17.3 | 86.7 |
| **13C8-PFOSA** | | 8:40 | 10.0 | 10.3 | 103 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 11.1 | 111 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 10.6 | 106 |
| **D3-MeFOSAA** | | 7:33 | 20.0 | 21.0 | 105 |
| **D5-EtFOSAA** | | 7:41 | 20.0 | 21.8 | 109 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 105 | 105 |
| **d9-NEt-FOSE** | | 10:15 | 100 | 105 | 105 |
| **13C3-HFPO-DA** | | 5:05 | 40.0 | 34.5 | 86.2 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 11:52:41; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_174S28__Form4B_SJ2749952.html; Workgroup: WG72424; Design ID: 3770 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | Y | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | Y | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | Y | Y | Y | | | | | | | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## SOLID SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG72829**

**Analysis WG72422**

## 6 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**SOLID SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**

**4095:** L33050-1 to -20

**Project name: P1007/60608807**
**Work order number: 3000025335**

**6 July 2020**

## NARRATIVE

This narrative describes the analysis of twenty solid samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 7th of May 2020. Details of sample conditions upon receipt are provided on the Sample Receiving Record form included in the sample documentation section of this data package. The samples were stored at -20°C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were all analyzed in one analysis batch designated as WG72422; the composition of which is shown on the Correlation Table included with this data package. The QC samples consisted of a laboratory procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, and a duplicate OPR). The laboratory procedural blank and OPR samples were both prepared using Canadian Springs water as the matrix.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 5 grams of each sample was accurately weighed. After addition of isotopically labelled surrogate standards, the sample was extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants were combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution was diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate was spiked with recovery standards and analyzed by LCMS/MS.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

**REPORTING CONVENTIONS**

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L33050-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix and combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
N = large dilution of the sample extract followed by instrumental re-analysis

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
U = identifies a compound that was not detected
V = surrogate recovery is not within contract control limits
E = exceeds calibrated linear range, see dilution data
X = result reported separately
D = dilution data

For all target analytes, the results were reported with concentration units of nanograms per gram (ng/g) on a dry mass basis. Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The field and QC samples were analyzed in two analysis batches and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Target analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank and labeled compound recovery specifications were met with the following exceptions:

Percent recovery of several labeled compounds in the Lab Blank, OPR's and several client samples were outside the contract nominal limit and were flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.

**ANALYTICAL DISCUSSION**

Sample RC6-SED-WET-0-6-01-042420 (SGS AXYS ID: L33050-15) was diluted and instrumentally re-analyzed to bring the area response of target PFOS to within the calibrated linear range of the instrument. The affected PFOS target concentration is reported from the diluted extract (indicated by suffix '**N**' on the SGS AXYS ID). The dilution factors are provided on the reports for the dilution analyses.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72829. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo — 06-Jul-2020

Bryan Alonzo, B. Sc., Data Validation Chemist — Date Signed

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**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentrat ion of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |



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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.



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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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### Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Solid Samples** |
| **Data Package Identification: DPWG72829** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72422-101 |
| OPR | WG72422-102 |
| OPR DUPLICATE | WG72422-103 |
| | |
| RC17-SED-BANK-EAST-0-3-01-042320 | L33050-1 |
| RC17-SED-BANK-EAST-3-6-01-042320 | L33050-2 |
| RC17-SED-BANK-WEST-0-3-01-042320 | L33050-3 |
| RC17-SED-BANK-WEST-3-6-01-042320 | L33050-4 |
| RC18-SED-COMP-0-3-01-042320 | L33050-5 |
| RC21-SED-COMP-0-3-01-042320 | L33050-6 |
| FC1-SED-0-3-01-042320 | L33050-7 |
| RC12-SED-12-18-01-042420 | L33050-8 |
| RC12-SED-30-36-01-042420 | L33050-9 |
| RC5-SED-0-4-01-042420 | L33050-10 |
| RC5-SED-4-6-01-042420 | L33050-11 |
| RC5-SED-22-26-01-042420 | L33050-12 |
| RC5-SED-WET-3-12-01-042420 | L33050-13 |
| RC5-SED-WET-12-18-01-042420 | L33050-14 |
| RC6-SED-WET-0-6-01-042420 | L33050-15 |
| RC6-SED-WET-12-18-01-042420 | L33050-16 |
| RC3-SED-WET-0-6-01-042520 | L33050-17 |
| RC3-SED-WET-12-18-01-042520 | L33050-18 |
| EP21-SED-0-6-01-042520 | L33050-19 |
| EP17-SED-WET-0-6-01-042520 | L33050-20 |
| | |
| | |
| | |
| | |
| | |

SGS AXYS

1 of 2

# CHAIN OF CUSTODY

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave S, Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tacara
Phone: 612-376-2452
FAX:
E-mail: andrew.tacara@aecom.com

**INVOICE TO:**
Company:
Address: SAME
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: 19007 / 60618753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: MLA-110, TOPA

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 | TOPA | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC17-SED-BANK-EAST-0-3-01-042320 | S | 4/23/20 | 1110 | HDPE/1 | L33050-1 | X | | | | |
| RC17-SED-BANK-EAST-3-6-01-042320 | S | 4/23/20 | 1130 | ↓ | -2 | X | | | | |
| RC17-SED-BANK-WEST-0-3-01-042320 | S | 4/23/20 | 1200 | ↓ | -3 | X | | | | |
| RC17-SED-BANK-WEST-3-6-01-042320 | S | 4/23/20 | 1215 | ↓ | -4 | X | | | | |
| RC18-SED-COMP-0-3-01-042320 | S | 4/23/20 | 1400 | ↓ | -5 | X | | | | |
| RC21-SED-COMP-0-3-01-042320 | S | 4/23/20 | 0950 | ↓ | -6 | X | | | | |
| EP21-SED-FOAM-0-6-01-042320 | S | 4/23/20 | 1240 | ↓ | ~~-45~~ 46 (DPR 13-May-20) | X | | | | |
| FC1-SED-0-3-01-042320 | S | 4/23/20 | 1445 | ↓ | -7 | X | | | | |
| RC12-SED-COMP-0-6-01-042420 | S | 4/24/20 | 1350 | HDPE/2 | L33049-1 | X | X | | | |
| RC12-SED-12-18-01-042420 | S | 4/24/20 | 1400 | HDPE/1 | -8 | X | | | | |
| RC12-SED-30-36-01-042420 | S | 4/24/20 | 1430 | ↓ | -9 | X | | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlsen<br>Date 07 May 2020 Time 10:35 | | 8149 0205 4430 |
| Relinquished by (Signature) | Date | Time | Received by (Signature)<br>Date Time | Sample Receipt | |

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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# CHAIN OF CUSTODY

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| *REPORT TO:* | *INVOICE TO:* |
|---|---|
| Company | Company |
| Address See page 1 | Address |
| Contact | Contact |
| Phone | Phone |
| FAX | FAX |
| E-mail | E-mail |
| Project Name/Number: | Sampler's Name: Amanda Langin |
| | Signature: |

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MYA-110 | TOPIA |
|---|---|---|---|---|---|---|---|
| RC5-SED-0-4-01-042420 | S | 4/24/20 | 1000 | HDPE/1 | L33050-10 | X | X |
| RC5-SED-4-6-01-042420 | S | 4/24/20 | 1015 | | -11 | X | X |
| RC5-SED-22-26-01-042420 | S | 4/24/20 | 1030 | | -12 | X | X |
| RC5-SED-WET-3-12-01-042420 | S | 4/24/20 | 1045 | | -13 | X | X |
| RC5-SED-WET-12-18-01-042420 | S | 4/24/20 | 1100 | | -14 | X | X |
| RC6-SED-WET-0-6-01-042420 | S | 4/24/20 | 1120 | | -15 | X | X |
| RC6-SED-WET-12-18-01-042420 | S | 4/24/20 | 1140 | | -16 | X | X |
| RC3-SED-WET-0-6-01-042520 | S | 4/25/20 | 0900 | | -17 | X | X |
| RC3-SED-WET-12-18-01-042520 | S | 4/25/20 | 0915 | | -18 | X | X |
| RC3A-SED-WET-0-6-01-042520 | S | 4/25/20 | 0930 | HDPE/2 | L33049-2 | X | X |
| RCR-SED-0-6-01-042520 | S | 4/25/20 | 1015 | HDPE/1 | -3 | X | X |

| | | | |
|---|---|---|---|
| Relinquished by (Signature) | Date 5/6/20 | Time 1600 | Received by (Signature) Jennifer Carlson Date 07 May 2020 Time 10:35 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time |

Courier: Waybill No. 8149 0205 4430

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

S 4/24/20 — HDPE/1

Triplicate L33049-2

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# CHAIN OF CUSTODY

1 of 2

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | | INVOICE TO: | |
|---|---|---|---|
| Company | AECOM | Company | |
| Address | 800 LaSalle Ave S<br>Ste 1100<br>Minneapolis, MN 55402 | Address | SAME |
| Contact | Andrew Tarara | Contact | |
| Phone | 612-376-2452 | Phone | |
| FAX | | FAX | |
| E-mail | andrew.tarara@aecom.com | E-mail | |

Project Name/Number: 89067/60618753

Sampler's Name: Amanda Lanning

Signature:

ANALYSIS REQUESTED: MLA-110

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 |
|---|---|---|---|---|---|---|
| EP21-SED-0-6-01-042520 | S | 4/25/20 | 1030 | HDPE/1 | L33050-19 | X |
| EP17-SED-WET-0-6-01-042520 | S | 4/25/20 | 1215 | | -20 | X |
| EP17-SED-WET-6-12-01-042520 | S | 4/25/20 | 1230 | | -21 | X |
| EP17-SED-0-6-01-042520 | S | 4/25/20 | 1245 | | -22 | X |
| EP19-SED-WET-0-6-01-042520 | S | 4/25/20 | 1315 | | -23 | X |
| EP19-SED-WET-6-12-01-042520 | S | 4/25/20 | 1330 | | -24 | X |
| EP19-SED-24-30-01-042520 | S | 4/25/20 | 1345 | | -25 | X |
| EP19-SED-36-42-01-042520 | S | 4/25/20 | 1400 | | -26 | X |
| ✓ RC21-WAT-BULK-01-042320 | W | 4/23/20 | 1400 | HDPE/4 | L33047-4 | X |
| ✓ EP21-WAT-BULK-01-042320 | W | 4/23/20 | 1300 | HDPE/2 | -5 | X |
| ✓ EP21-WAT-BULK-01-042420 | W | 4/24/20 | 1425 | HDPE/4 | -6 | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlson<br>Date 07 May 2020 Time 10:35 | | 8149 0205 4418 |
| Relinquished by (Signature) | Date | Time | Received by (Signature)<br>Date Time | Sample Receipt | |

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

2 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | INVOICE TO: |
|---|---|
| Company: AECOM | Company: |
| Address: 300 Golf Ave S Ste 1100 Minneapolis, MN 55402 | Address: |
| Contact: Andrew Tarara | Contact: |
| Phone: 612-376-2452 | Phone: |
| FAX: | FAX: |
| E-mail: andrew.tarara@aecom.com | E-mail: |

Project Name/Number: 60607/60601873

Sampler's Name: Amanda Lanning

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MWA-110 | Triplicate |
|---|---|---|---|---|---|---|---|
| RC14SED-WET-0-6-01-043020 | S | 4/30/20 | 1130 | HDPE/1 | L33050-27 | X | |
| RC14SED-WET-0-6-02-043020 | S | 4/30/20 | 1145 | HDPE/1 | -28 | X | |
| RC14SED-WET-6-12-01-043020 | S | 4/30/20 | 1200 | HDPE/1 | -29 | X | |
| EP21-SED-BEACH-FOAM-01-050520 | S | 5/5/20 | 1530 | HDPE/1 | ~~-46~~ 47 (DPR 13-May-20 | X | |
| | | | | | | | |
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| | | | | | | | |
| Triplicate | | | | | L33047-1 | X | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time | Courier | Waybill No. |
|---|---|---|---|---|---|---|---|
| | 5/6/20 | 1600 | Jennifer Carlson | 07May2020 | 10:35 | | 8249 0205 4418 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time | | |

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

1 of 2

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave S, Ste 1100, Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-367-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company:
Address: SAME
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MA-110 | MSMSD | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EP16-SED-0-6-01-042720 | S | 4/27/20 | 1400 | 4 HDPE/1 | L33050-30 | X | | | | |
| EP16-SED-0-6-02-042720 | S | 4/29/20 | 1415 | | -31 | X | | | | |
| EP16-SED-0-6-03-042720 | S | | 1430 | | -32 | X | X | | | |
| EP16-SED-6-18-01-042720 | S | | 1435 | | -33 | X | | | | |
| EP16-SED-30-36-01-042720 | S | | 1445 | | -34 | X | | | | |
| EP20-SED-WET-0-6-01-042720 | S | | 0930 | | -35 | X | | | | |
| EP20-SED-WET-6-12-042720 | S | | 0945 | | -36 | X | | | | |
| EP20-SED-24-30-01-042720 | S | | 1000 | | -37 | X | | | | |
| EP20-SED-36-42-01-042720 | S | | 1015 | | -38 | X | | | | |
| EP23-SED-0-6-01-042720 | S | | 1230 | | -39 | X | | | | |
| EP24-SED-0-6-01-042720 | S | | 1130 | | -40 | X | | | | |

Relinquished by (Signature): [signature] Date: 5/6/20 Time: 1600
Received by (Signature): Jennifer Carlson Date: 08 MAY 2020 Time: 08:25
Courier: [signature] Waybill No.: 8149 0205 4407

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 2 of 2

| REPORT TO: | INVOICE TO: |
|---|---|
| Company | Company |
| Address See page 1 | Address See page 1 |
| Contact | Contact |
| Phone | Phone |
| FAX | FAX |
| E-mail | E-mail |

Project Name/Number: P1007/606.18753

Sampler's Name: Amanda Lanning

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MUA-110 | MS/MSD | TKN-Blank |
|---|---|---|---|---|---|---|---|---|
| BP1-SED-0-6-01-042720 | S | 4/27/20 | 1100 | HDPE/1 | L33050-41 | X | | |
| VB1-SED-COMP-0-6-042720 | S | 4/29/20 | 1200 | | -42 | X | | |
| VB3-SED-COMP-0-6-01-042720 | S | 4/27/20 | 1230 | | -43 | X | | |
| VB3-SED-COMP-0-6-02-042720 | S | 4/27/20 | 1235 | | -44 | X | | |
| VB3-SED-COMP-0-6-03-042720 | S | 4/27/20 | 1240 | | -45 | X | X | |
| TKN Blank | W | 5/6/20 | — | HDPE/1 | L33047-3 | X | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| | 5/6/20 | 1600 | Jennifer Carlsen | | 8149 0205 4407 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Sample Receipt | |
| | | | Date 08 MAY 2020 Time 08:25 | | |
| Remarks | | | | Temp °C | Cooler |
| | | | | Custody Seal # | |
| | | | | Seal Intact Y / N | |
| | | | | Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

* indicates a required field

**Work Order Number: 3000244460** — 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY** — Lab Work Order Sticker

**PROJECT/CLIENT INFO**

Facility Code:* SR0001491 — Program Code (MDH Lab Only):

Project Name:* Project 1007 — Project Task Code:* PRJ08141

Project Manager: Andrew Tarara

Potential Hazard? — If yes, add information to **Sampler Comments** field

**LABORATORY**

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | End Date (mm/dd/yyyy) | End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. FF | ANALYSIS* | MLA-110 | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-067 | RC17-SED-BANK-EAST-0-3-01-042320 | Sample | 23/04/2020 | 1110 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-1 | 1 |
| S016-067 | RC17-SED-BANK-EAST-3-6-01-042320 | Sample | 23/04/2020 | 1130 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-2 | 2 |
| S016-067 | RC17-SED-BANK-WEST-0-3-01-042320 | Sample | 23/04/2020 | 1200 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-3 | 3 |
| S016-067 | RC17-SED-BANK-WEST-3-6-01-042320 | Sample | 23/04/2020 | 1215 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-4 | 4 |
| 82-0109-00-208 | RC18-SED-COMP-0-3-01-042320 | Sample | 23/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-5 | 5 |
| S016-280 | RC21-SED-COMP-0-3-01-042320 | Sample | 23/04/2020 | 0950 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-6 | 6 |
| S016-315 | FC1-SED-0-3-01-042320 | Sample | 23/04/2020 | 1445 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-7 | 7 |
| S016-061 | RC12-SED-12-18-01-042420 | Sample | 24/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-8 | 8 |
| S016-061 | RC12-SED-30-36-01-042420 | Sample | 24/04/2020 | 1430 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-9 | 9 |
| S016-189 | RC5-SED-0-4-01-042420 | Sample | 24/04/2020 | 1000 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-10 | 10 |
| S016-189 | RC5-SED-4-6-01-042420 | Sample | 24/04/2020 | 1015 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-11 | 11 |
| S016-189 | RC5-SED-22-26-01-042420 | Sample | 24/04/2020 | 1030 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-12 | 12 |
| S016-189 | RC5-SED-WET-3-12-01-042420 | Sample | 24/04/2020 | 1045 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-13 | 13 |
| S016-189 | RC5-SED-WET-12-18-01-042420 | Sample | 24/04/2020 | 1100 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-14 | 14 |
| S016-190 | RC6-SED-WET-0-6-01-042420 | Sample | 24/04/2020 | 1120 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-15 | 15 |
| S016-190 | RC6-SED-WET-12-18-01-042420 | Sample | 24/04/2020 | 1140 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-16 | 16 |
| S016-051 | RC3-SED-WET-0-6-01-042520 | Sample | 25/04/2020 | 0900 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-17 | 17 |
| S016-051 | RC3-SED-WET-12-18-01-042520 | Sample | 25/04/2020 | 0915 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-18 | 18 |
| 82-0106-00-303 | EP21-SED-0-6-01-042520 | Sample | 25/04/2020 | 1030 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-19 | 19 |
| 82-0109-00-452 | EP17-SED-WET-0-6-01-042520 | Sample | 25/04/2020 | 1215 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-20 | 20 |
| 82-0109-00-452 | EP17-SED-WET-6-12-01-042520 | Sample | 25/04/2020 | 1230 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-21 | 21 |
| 82-0109-00-452 | EP17-SED-0-6-01-042520 | Sample | 25/04/2020 | 1245 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-22 | 22 |
| 82-0109-00-453 | EP19-SED-WET-0-6-01-042520 | Sample | 25/04/2020 | 1315 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-23 | 23 |
| 82-0109-00-453 | EP19-SED-WET-6-12-01-042520 | Sample | 25/04/2020 | 1330 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-24 | 24 |
| 82-0109-00-453 | EP19-SED-24-30-01-042520 | Sample | 25/04/2020 | 1345 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-25 | 25 |
| 82-0109-00-453 | EP19-SED-36-42-01-042520 | Sample | 25/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-26 | 26 |
| S016-314 | RC16A-SED-WET-0-6-01-043020 | Sample | 30/04/2020 | 1130 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-27 | 27 |
| S016-314 | RC16A-SED-WET-0-6-02-043020 | QC-FR | 30/04/2020 | 1145 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-28 | 28 |
| S016-314 | RC16A-SED-WET-6-12-01-043020 | Sample | 30/04/2020 | 1200 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-29 | 29 |
| S016-234 | EP16-SED-0-6-01-042720 | Sample | 27/04/2020 | 1400 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-30 | 30 |
| S016-234 | EP16-SED-0-6-02-042720 | QC-FR | 27/04/2020 | 1415 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-31 | 31 |
| S016-234 | EP16-SED-0-6-03-042720 | QC-FR | 27/04/2020 | 1430 | | | | G | | | SD | | Sed-USieve | | MS/MSD | 1 | | | X | L33050-32 | 32 |
| S016-234 | EP16-SED-6-18-01-042720 | Sample | 27/04/2020 | 1435 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-33 | 33 |
| S016-234 | EP16-SED-30-36-01-042720 | Sample | 27/04/2020 | 1445 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-34 | 34 |
| 82-0109-00-454 | EP20-SED-WET-0-6-01-042720 | Sample | 27/04/2020 | 0930 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-35 | 35 |
| 82-0109-00-454 | EP20-SED-WET-6-12-01-042720 | Sample | 27/04/2020 | 0945 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-36 | 36 |
| 82-0109-00-454 | EP20-SED-24-30-01-042720 | Sample | 27/04/2020 | 1000 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-37 | 37 |
| 82-0109-00-454 | EP20-SED-36-42-01-042720 | Sample | 27/04/2020 | 1015 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-38 | 38 |
| 82-0106-00-302 | EP23-SED-0-6-01-042720 | Sample | 27/04/2020 | 1230 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-39 | 39 |
| 82-0107-00-204 | EP24-SED-0-6-01-042720 | Sample | 27/04/2020 | 1130 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-40 | 40 |
| 82-0111-00-201 | BP1-SED-0-6-01-042720 | Sample | 27/04/2020 | 1100 | | | | G | | | SD | | Sed-USieve | | | 1 | | | X | L33050-41 | 41 |

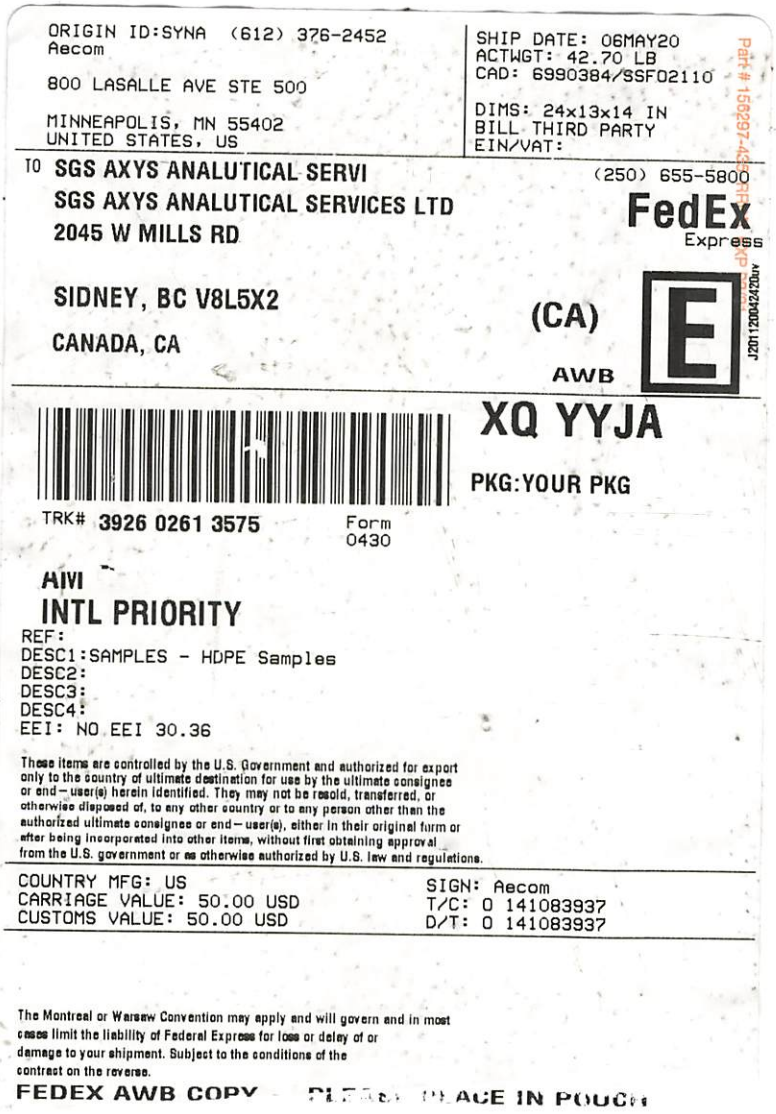
| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-281 | VB1-SED-COMP-0-6-01-042720 | Sample | 27/04/2020 | 1200 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-42 | 42 |
| S016-316 | VB3-SED-COMP-0-6-01-042720 | Sample | 27/04/2020 | 1230 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-43 | 43 |
| S016-316 | VB3-SED-COMP-0-6-02-042720 | QC-FR | 27/04/2020 | 1235 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-44 | 44 |
| S016-316 | VB3-SED-COMP-0-6-03-042720 | QC-FR | 27/04/2020 | 1240 | | | | G | | | SD | | Sed-USieve | | MS/MSD | 1 | | x | | L33050-45 | 45 |
| 82-0106-00-303 | EP21-SED-FOAM-0-6-01-042320 | Sample | 23/04/2020 | 1240 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-46 | 46 |
| 82-0106-00-303 | EP21-SED-BEACH-FOAM-01-050520 | Sample | 05/05/2020 | 1530 | | | | G | | | SD | | Sed-USieve | | | 1 | | x | | L33050-47 | 47 |

| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |
| **Receiving Comments:** | | | |

| **Relinquished By/Affiliation** | **Date/Time** | **Accepted By/Affiliation** | **Date/Time** |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

WB27446



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DESC3:
DESC4:
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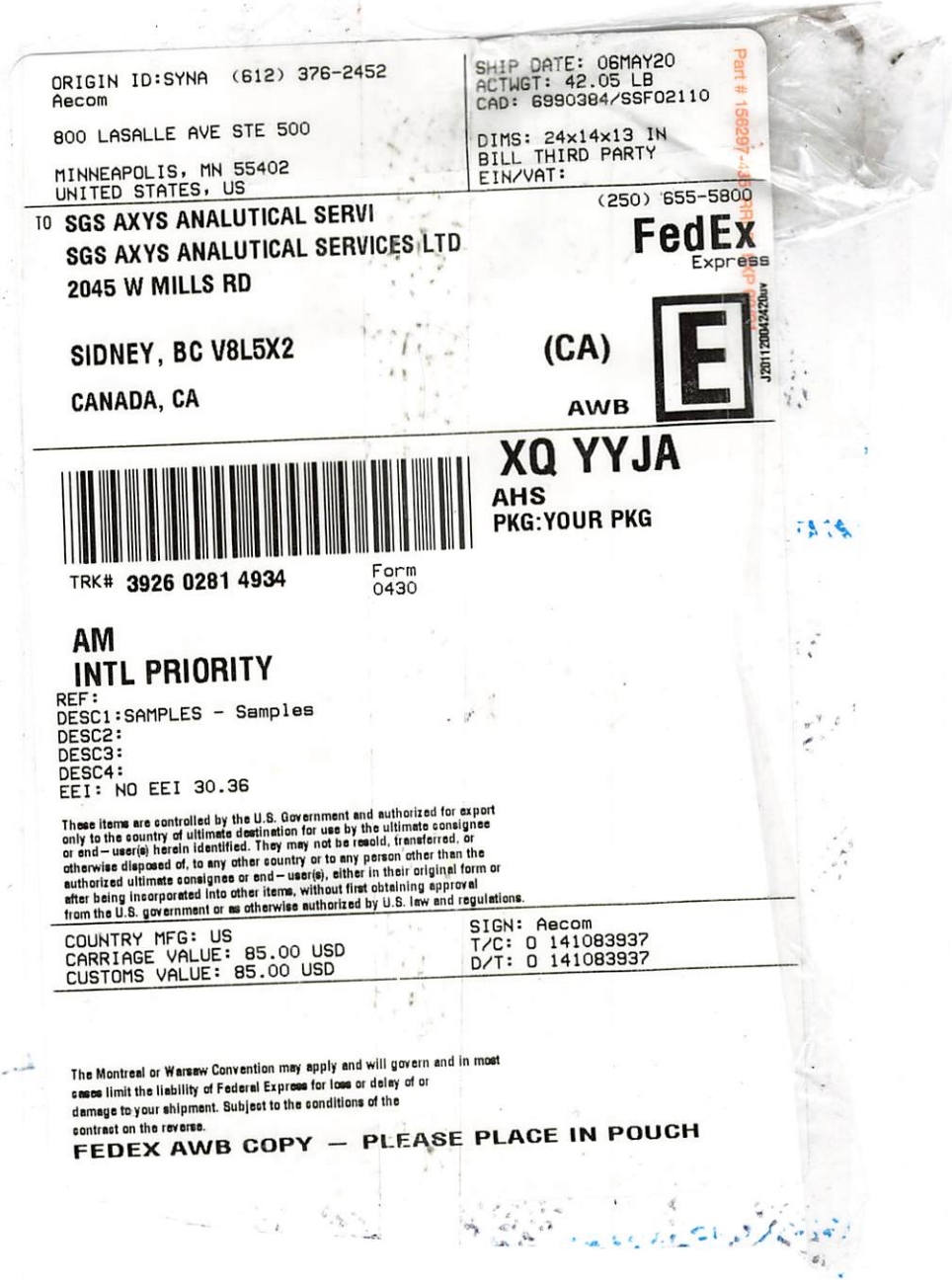
4095

WB27449



ORIGIN ID:SYNA (612) 376-2452
Aecom

800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 42.05 LB
CAD: 6990384/SSF02110

DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RRP 0 KP 0 KP

(250) 655-5800

TO SGS AXYS ANALUTICAL SERVI
SGS AXYS ANALUTICAL SERVICES LTD
2045 W MILLS RD

SIDNEY, BC V8L5X2

CANADA, CA

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Express

(CA)

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E

J201120042420uv

XQ YYJA
AHS
PKG:YOUR PKG

TRK# 3926 0281 4934

Form
0430

AM
INTL PRIORITY

REF:
DESC1:SAMPLES - Samples
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

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FEDEX AWB COPY — PLEASE PLACE IN POUCH

8:25
6.4°C
5745
~~TP~~ Bags wet
ice, melted

RECEIVED
08
MAY ~~07~~ 2020
Aug 08 May 2020
Jennifer Carlson

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602613575
Date /Time Received: 07-MAY-20 10:35
Receipt No: WB27446

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE

Signature:

Axys Sample ID's: L33050-19 to -29, -47 L33047-1, -4 to -6

Matrix Type: S/AQ

Thermometer ID: 5728

Condition of Shipping Container: intact

Corrected Temperature: 5.2 Celcius

Temperature upon Receipt: 5.4 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602993191
Date /Time Received: 07-MAY-20 10:35
Receipt No: WB27448

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENSDIVE Signature:

Axys Sample ID's: L33050-1 to -18, -46 L33049-1 to -3 L33047-2

Matrix Type: S

Thermometer ID: 5713

Condition of Shipping Container: Intact

Corrected Temperature: 7.6 Celcius

Temperature upon Receipt: 7.7 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602814934
Date /Time Received: 08-MAY-20 08:25
Receipt No: WB27449

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: DGRENDIVE Signature:

Axys Sample ID's: L33050-30 to -45 L33047-3

Matrix Type: S/AQ

Thermometer ID: 5745

Condition of Shipping Container: intact

Corrected Temperature: 6.2 Celcius

Temperature upon Receipt: 6.4 Celcius bagged wet ice, melted

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Checked 14-May-20 DPR*

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33050-1** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC17-SED-BANK-EAST-0-3-01-042320<br>23-APR-20 11:10 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-2** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC17-SED-BANK-EAST-3-6-01-042320<br>23-APR-20 11:30 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-3** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC17-SED-BANK-WEST-0-3-01-042320<br>23-APR-20 12:00 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-4** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC17-SED-BANK-WEST-3-6-01-042320<br>23-APR-20 12:15 | | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-5** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC18-SED-COMP-0-3-01-042320<br>23-APR-20 14:00 | | 82-0109-00-208<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-6** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC21-SED-COMP-0-3-01-042320<br>23-APR-20 09:50 | | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-7** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| FC1-SED-0-3-01-042320<br>23-APR-20 14:45 | | S016-315<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-8** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC12-SED-12-18-01-042420<br>24-APR-20 14:00 | | S016-061<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-9** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC12-SED-30-36-01-042420<br>24-APR-20 14:30 | | S016-061<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-10** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC5-SED-0-4-01-042420 | | S016-189 | | | |
| 24-APR-20 10:00 | | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-11** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC5-SED-4-6-01-042420 | | S016-189 | | | |
| 24-APR-20 10:15 | | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-12** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC5-SED-22-26-01-042420 | | S016-189 | | | |
| 24-APR-20 10:30 | | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-13** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC5-SED-WET-3-12-01-0-042420<br>24-APR-20 10:45 | | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-14** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC5-SED-WET-12-18-01-042420<br>24-APR-20 11:00 | | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-15** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| RC6-SED-WET-0-6-01-042420<br>24-APR-20 11:20 | | S016-190<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-16** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC6-SED-WET-12-18-01-042420<br>24-APR-20 11:40 | S016-190<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-17** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC3-SED-WET-0-6-01-042520<br>25-APR-20 09:00 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-18** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC3-SED-WET-12-18-01-042520<br>25-APR-20 09:15 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-19** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP21-SED-0-6-01-042520<br>25-APR-20 10:30 | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-20** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP17-SED-WET-0-6-01-042520<br>25-APR-20 12:15 | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-21** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP17-SED-WET-6-12-01-042520<br>25-APR-20 12:30 | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-22** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP17-SED-0-6-01-042520<br>25-APR-20 12:45 | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-23** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP19-SED-WET-0-6-01-042520<br>25-APR-20 13:15 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-24** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP19-SED-WET-6-12-01-042520<br>25-APR-20 13:30 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-25** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP19-SED-24-30-01-042520<br>25-APR-20 13:45 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-26** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP19-SED-36-42-01-042520<br>25-APR-20 14:00 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-27** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC16A-SED-WET-0-6-01-043020<br>30-APR-20 11:30 | S016-314<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-28** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC16A-SED-WET-0-6-02-043020 | S016-314 | | | |
| 30-APR-20 11:45 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-29** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| RC16A-SED-WET-6-12-01-043020 | S016-314 | | | |
| 30-APR-20 12:00 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-30** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-0-6-01-042720 | S016-234 | | | |
| 27-APR-20 14:00 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-31** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-0-6-02-042720 | S016-234 | | | |
| 27-APR-20 14:15 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-32** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-0-6-03-042720 | S016-234 | | | |
| 27-APR-20 14:30 | Project #: TIM LOCKREM 2019 | | | |
| Comments: For MS/MSD | | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-33** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-6-18-01-042720 | S016-234 | | | |
| 27-APR-20 14:35 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-34** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP16-SED-30-36-01-042720<br>27-APR-20 14:45 | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-35** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-WET-0-6-01-042720<br>27-APR-20 09:30 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-36** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-WET-6-12-042720<br>27-APR-20 09:45 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-37** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-24-30-01-042720<br>27-APR-20 10:00 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-38** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP20-SED-36-42-01-042720<br>27-APR-20 10:15 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-39** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP23-SED-0-6-01-042720<br>27-APR-20 12:30 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33050-40** | | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| EP24-SED-0-6-01-042720<br>27-APR-20 11:30 | | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-41** | | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| BP1-SED-0-6-01-042720<br>27-APR-20 11:00 | | 82-0111-00-201<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33050-42** | | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | | |
| VB1-SED-COMP-0-6-01-042720<br>27-APR-20 12:00 | | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33050-43** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| VB3-SED-COMP-0-6-01-042720 | S016-316 | | | |
| 27-APR-20 12:30 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-44** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| VB3-SED-COMP-0-6-02-042720 | S016-316 | | | |
| 27-APR-20 12:35 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-45** | | 08-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| VB3-SED-COMP-0-6-03-042720 | S016-316 | | | |
| 27-APR-20 12:40 | Project #: TIM LOCKREM 2019 | | | |
| Comments: For MS/MSD | | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*05:02 PM*

**Login Number:** L33050

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33050-46** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP21-SED-FOAM-0-6-01-042320 | 82-0106-00-303 | | | |
| 23-APR-20 12:40 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |
| **L33050-47** | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | | | |
| EP21-SED-BEACH-FOAM-01-050520 | 82-0106-00-303 | | | |
| 05-MAY-20 15:30 | Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | : | USD |
| Solid | 5:FC MOISTURE | | : | USD |
| Solid | FC110 | | : | USD |
| Solid | HOMOGENIZATION | | : | USD |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 250 mL plastic | USD |

| Contract: 4095 | Date: 13-May-2020 | Initials: RTG |
|---|---|---|

| Axys ID | Client ID | | Sampling Date&Time | | Missing | Damaged Label | Other/Comments: |
|---|---|---|---|---|---|---|---|
| | COC | Client Label (if discrepancy) | COC | Client Label (if discrepancy) | | | |
| L33050-18 | RC3-SED-WET-12-18-01-042520 | RC-3-SED-WET-12-18-01-042520 | 25/03/2020 9:15:00 AM | | | | Logged in as per COC |
| L33050-43 | VB3-SED-COMP-0-6-01-042720 | VB3-SED-COMP01-042720 | 27/04/2020 12:30:00 PM | | | | Logged in as per COC |
| L33050-44 | VB3-SED-COMP-0-6-02-042720 | VB3-SED-COMP02-042720 | 27/04/2020 12:35:00 PM | | | | Logged in as per COC |
| L33050-45 | VB3-SED-COMP-0-6-03-042720 | VB3-SED-COMP03-042720 | 23/04/2020 12:40:00 PM | | | | Logged in as per COC |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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4095

WB27449

L33050 -~~30~~ -29 to -45

43 - VB3-SED-comp 01 - 042720
44 - VB3-SED-comp 02 - 042720
45 - VB3-SED-comp 03- 04272

Processed by:
~~RAG~~/JTC
12-MAY-2020

WB27446

L33050 -19 to -29
-47

WB27448

L33050-1 to -18
-46

-18: RC-3-SED-WET-12-18-01-042520

L33049-1 to -3

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-EAST-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 11:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-1 |
| **Matrix:** | SOLID | **Sample Size:** | 4.90 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 23:31:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 33.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 0.824 | 0.326 (L) | 1:57 |
| **PFPeA** | U | | 0.163 (L) | |
| **PFHxA** | J | 0.084 | 0.0816 (L) | 4:57 |
| **PFHpA** | U | | 0.0816 (L) | |
| **PFOA** | | 0.425 | 0.0816 (L) | |
| **PFNA** | J | 0.084 | 0.0816 (L) | |
| **PFDA** | | 0.214 | 0.0816 (L) | 7:32 |
| **PFUnA** | J | 0.118 | 0.0816 (L) | 7:51 |
| **PFDoA** | J | 0.085 | 0.0816 (L) | 8:08 |
| **PFTrDA** | U | | 0.0816 (L) | |
| **PFTeDA** | U | | 0.0816 (L) | |
| **PFBS** | U | | 0.0816 (L) | |
| **PFPeS** | U | | 0.0816 (L) | |
| **PFHxS** | U | | 0.0816 (L) | |
| **PFHpS** | U | | 0.0816 (L) | |
| **PFOS** | | 9.92 | 0.0816 (L) | |
| **PFNS** | U | | 0.0816 (L) | |
| **PFDS** | J | 0.103 | 0.0816 (L) | 8:15 |
| **PFDoS** | U | | 0.0816 (L) | |
| **4:2 FTS** | U | | 0.326 (L) | |
| **6:2 FTS** | U | | 0.294 (L) | |
| **8:2 FTS** | U | | 0.326 (L) | |
| **PFOSA** | | 0.393 | 0.0816 (L) | |
| **N-MeFOSA** | U | | 0.0938 (L) | |
| **N-EtFOSA** | U | | 0.204 (L) | |
| **MeFOSAA** | U | | 0.0816 (L) | |
| **EtFOSAA** | | 0.223 | 0.0816 (L) | |
| **N-MeFOSE** | U | | 0.816 (L) | |
| **N-EtFOSE** | U | | 0.612 (L) | |
| **HFPO-DA** | U | | 0.310 (L) | |
| **ADONA** | U | | 0.326 (L) | |
| **9Cl-PF3ONS** | U | | 0.326 (L) | |
| **11Cl-PF3OUdS** | U | | 0.326 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-1_Form1A_FC0L_166S31_SJ2750228.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-EAST-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 11:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-1 |
| **Matrix:** | SOLID | **Sample Size:** | 4.90 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 23:31:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 33.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.6 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 102 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.63 | 96.3 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.44 | 94.4 | 5:26 |
| **13C8-PFOA** | | 10.0 | 9.07 | 90.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.59 | 91.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.26 | 105 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.33 | 107 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.54 | 111 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.40 | 88.0 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.80 | 98.0 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.21 | 92.1 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.3 | 103 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 18.8 | 94.1 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 15.6 | 78.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.7 | 88.7 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.90 | 99.0 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 5.50 | 55.0 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.53 | 45.3 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.0 | 110 | 7:35 |
| **D5-EtFOSAA** | | 20.0 | 26.4 | 132 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 78.5 | 78.5 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 79.3 | 79.3 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.5 | 91.2 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-1_Form2_FC0L_166S31_SJ2750228.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-EAST-3-6-01-042320**
**Sample Collection:**
**23-Apr-2020 11:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-2 |
| **Matrix:** | SOLID | **Sample Size:** | 5.20 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 23:44:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 26.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1.16 | 0.308 (L) | 1:57 |
| **PFPeA** | J | 0.192 | 0.154 (L) | 4:22 |
| **PFHxA** | J | 0.123 | 0.0770 (L) | 4:57 |
| **PFHpA** | J | 0.083 | 0.0770 (L) | 5:26 |
| **PFOA** | | 0.857 | 0.0770 (L) | |
| **PFNA** | U | | 0.0770 (L) | |
| **PFDA** | | 0.181 | 0.0770 (L) | 7:32 |
| **PFUnA** | J | 0.104 | 0.0770 (L) | 7:51 |
| **PFDoA** | J | 0.093 | 0.0770 (L) | 8:08 |
| **PFTrDA** | U | | 0.0770 (L) | |
| **PFTeDA** | U | | 0.0770 (L) | |
| **PFBS** | U | | 0.0770 (L) | |
| **PFPeS** | U | | 0.0770 (L) | |
| **PFHxS** | U | | 0.0770 (L) | |
| **PFHpS** | U | | 0.0770 (L) | |
| **PFOS** | | 11.8 | 0.0770 (L) | |
| **PFNS** | U | | 0.0770 (L) | |
| **PFDS** | J | 0.150 | 0.0770 (L) | 8:15 |
| **PFDoS** | U | | 0.0770 (L) | |
| **4:2 FTS** | U | | 0.308 (L) | |
| **6:2 FTS** | U | | 0.277 (L) | |
| **8:2 FTS** | U | | 0.308 (L) | |
| **PFOSA** | | 0.474 | 0.0770 (L) | |
| **N-MeFOSA** | U | | 0.0885 (L) | |
| **N-EtFOSA** | U | | 0.192 (L) | |
| **MeFOSAA** | U | | 0.0770 (L) | |
| **EtFOSAA** | J | 0.126 | 0.0770 (L) | |
| **N-MeFOSE** | U | | 0.770 (L) | |
| **N-EtFOSE** | U | | 0.577 (L) | |
| **HFPO-DA** | U | | 0.292 (L) | |
| **ADONA** | U | | 0.308 (L) | |
| **9Cl-PF3ONS** | U | | 0.308 (L) | |
| **11Cl-PF3OUdS** | U | | 0.308 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-2_Form1A_FC0L_166S32_SJ2750229.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-EAST-3-6-01-042320**
**Sample Collection:**
**23-Apr-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-2 |
| **Matrix:** | SOLID | **Sample Size:** | 5.20 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 23:44:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 26.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.4 | 93.4 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.6 | 108 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.61 | 96.1 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.43 | 94.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.65 | 92.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.16 | 103 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.22 | 104 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.13 | 103 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.38 | 87.6 | 8:54 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.64 | 96.4 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.4 | 104 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.8 | 99.0 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.2 | 85.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.1 | 95.7 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.1 | 101 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.08 | 80.8 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.17 | 71.7 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.6 | 113 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 26.0 | 130 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 96.8 | 96.8 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 95.9 | 95.9 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.1 | 95.3 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-2_Form2_FC0L_166S32_SJ2750229.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-WEST-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-3 |
| **Matrix:** | SOLID | **Sample Size:** | 4.93 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 23:57:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 29.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.627 | 0.325 (L) | 1:58 |
| **PFPeA** | U | | 0.162 (L) | |
| **PFHxA** | U | | 0.0811 (L) | |
| **PFHpA** | U | | 0.0811 (L) | |
| **PFOA** | | 0.416 | 0.0811 (L) | |
| **PFNA** | U | | 0.0811 (L) | |
| **PFDA** | J | 0.084 | 0.0811 (L) | 7:32 |
| **PFUnA** | J | 0.083 | 0.0811 (L) | 7:51 |
| **PFDoA** | U | | 0.0811 (L) | |
| **PFTrDA** | U | | 0.0811 (L) | |
| **PFTeDA** | U | | 0.0811 (L) | |
| **PFBS** | U | | 0.0811 (L) | |
| **PFPeS** | U | | 0.0811 (L) | |
| **PFHxS** | U | | 0.0811 (L) | |
| **PFHpS** | U | | 0.0811 (L) | |
| **PFOS** | | 5.31 | 0.0811 (L) | |
| **PFNS** | U | | 0.0811 (L) | |
| **PFDS** | J | 0.131 | 0.0811 (L) | 8:15 |
| **PFDoS** | U | | 0.0811 (L) | |
| **4:2 FTS** | U | | 0.325 (L) | |
| **6:2 FTS** | U | | 0.292 (L) | |
| **8:2 FTS** | U | | 0.325 (L) | |
| **PFOSA** | J | 0.182 | 0.0811 (L) | |
| **N-MeFOSA** | U | | 0.0933 (L) | |
| **N-EtFOSA** | U | | 0.203 (L) | |
| **MeFOSAA** | U | | 0.0811 (L) | |
| **EtFOSAA** | J | 0.127 | 0.0811 (L) | |
| **N-MeFOSE** | U | | 0.811 (L) | |
| **N-EtFOSE** | U | | 0.609 (L) | |
| **HFPO-DA** | U | | 0.308 (L) | |
| **ADONA** | U | | 0.325 (L) | |
| **9Cl-PF3ONS** | U | | 0.325 (L) | |
| **11Cl-PF3OUdS** | U | | 0.325 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-3_Form1A_FC0L_166S33_SJ2750230.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-WEST-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 12:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-3 |
| **Matrix:** | SOLID | **Sample Size:** | 4.93 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 23:57:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 29.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.0 | 92.6 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.4 | 107 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.2 | 102 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.19 | 91.9 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.39 | 93.9 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.20 | 104 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.36 | 107 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.40 | 108 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.42 | 88.3 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.16 | 91.6 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.30 | 93.0 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.3 | 91.3 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 15.8 | 78.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.3 | 86.6 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.91 | 99.1 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.37 | 83.7 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.01 | 70.1 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.3 | 112 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 26.7 | 134 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 102 | 102 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 101 | 101 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.8 | 96.9 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-3_Form2_FC0L_166S33_SJ2750230.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-WEST-3-6-01-042320**
**Sample Collection:**
**23-Apr-2020 12:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-4 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:10:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 28.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 0.848 | 0.318 (L) | 1:58 |
| **PFPeA** | U | | 0.159 (L) | |
| **PFHxA** | U | | 0.0795 (L) | |
| **PFHpA** | U | | 0.0795 (L) | |
| **PFOA** | | 0.468 | 0.0795 (L) | |
| **PFNA** | U | | 0.0795 (L) | |
| **PFDA** | J | 0.103 | 0.0795 (L) | 7:32 |
| **PFUnA** | J | 0.093 | 0.0795 (L) | 7:51 |
| **PFDoA** | U | | 0.0795 (L) | |
| **PFTrDA** | U | | 0.0795 (L) | |
| **PFTeDA** | U | | 0.0795 (L) | |
| **PFBS** | U | | 0.0795 (L) | |
| **PFPeS** | U | | 0.0795 (L) | |
| **PFHxS** | U | | 0.0795 (L) | |
| **PFHpS** | U | | 0.0795 (L) | |
| **PFOS** | | 5.76 | 0.0795 (L) | |
| **PFNS** | U | | 0.0795 (L) | |
| **PFDS** | J | 0.121 | 0.0795 (L) | 8:15 |
| **PFDoS** | U | | 0.0795 (L) | |
| **4:2 FTS** | U | | 0.318 (L) | |
| **6:2 FTS** | U | | 0.286 (L) | |
| **8:2 FTS** | U | | 0.318 (L) | |
| **PFOSA** | J | 0.210 | 0.0795 (L) | |
| **N-MeFOSA** | U | | 0.0915 (L) | |
| **N-EtFOSA** | U | | 0.199 (L) | |
| **MeFOSAA** | U | | 0.0795 (L) | |
| **EtFOSAA** | J | 0.090 | 0.0795 (L) | |
| **N-MeFOSE** | U | | 0.795 (L) | |
| **N-EtFOSE** | U | | 0.597 (L) | |
| **HFPO-DA** | U | | 0.302 (L) | |
| **ADONA** | U | | 0.318 (L) | |
| **9Cl-PF3ONS** | U | | 0.318 (L) | |
| **11Cl-PF3OUdS** | U | | 0.318 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-4_Form1A_FC0L_166S34_SJ2750231.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-SED-BANK-WEST-3-6-01-042320**
**Sample Collection:**
**23-Apr-2020 12:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-4 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:10:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 28.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.3 | 93.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.8 | 109 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.3 | 103 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.31 | 93.1 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.89 | 98.9 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.76 | 95.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.03 | 101 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.10 | 102 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.21 | 104 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.19 | 83.8 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.33 | 93.3 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.31 | 93.1 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.95 | 99.5 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.2 | 95.8 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.5 | 82.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 89.2 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.11 | 91.1 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.07 | 60.7 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.99 | 49.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.4 | 107 | 7:35 |
| **D5-EtFOSAA** | | 20.0 | 23.7 | 118 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 93.1 | 93.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 90.0 | 90.0 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.7 | 96.7 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-4_Form2_FC0L_166S34_SJ2750231.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18-SED-COMP-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-5 |
| **Matrix:** | SOLID | **Sample Size:** | 4.92 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:23:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 31.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.325 (L) | |
| **PFPeA** | U | | 0.163 (L) | |
| **PFHxA** | U | | 0.0813 (L) | |
| **PFHpA** | U | | 0.0813 (L) | |
| **PFOA** | J | 0.143 | 0.0813 (L) | |
| **PFNA** | U | | 0.0813 (L) | |
| **PFDA** | U | | 0.0813 (L) | |
| **PFUnA** | U | | 0.0813 (L) | |
| **PFDoA** | U | | 0.0813 (L) | |
| **PFTrDA** | U | | 0.0813 (L) | |
| **PFTeDA** | U | | 0.0813 (L) | |
| **PFBS** | U | | 0.0813 (L) | |
| **PFPeS** | U | | 0.0813 (L) | |
| **PFHxS** | U | | 0.0813 (L) | |
| **PFHpS** | U | | 0.0813 (L) | |
| **PFOS** | | 4.52 | 0.0813 (L) | |
| **PFNS** | U | | 0.0813 (L) | |
| **PFDS** | U | | 0.0813 (L) | |
| **PFDoS** | U | | 0.0813 (L) | |
| **4:2 FTS** | U | | 0.325 (L) | |
| **6:2 FTS** | U | | 0.293 (L) | |
| **8:2 FTS** | U | | 0.325 (L) | |
| **PFOSA** | J | 0.144 | 0.0813 (L) | |
| **N-MeFOSA** | U | | 0.0934 (L) | |
| **N-EtFOSA** | U | | 0.203 (L) | |
| **MeFOSAA** | U | | 0.0813 (L) | |
| **EtFOSAA** | J | 0.147 | 0.0813 (L) | |
| **N-MeFOSE** | U | | 0.813 (L) | |
| **N-EtFOSE** | U | | 0.609 (L) | |
| **HFPO-DA** | U | | 0.309 (L) | |
| **ADONA** | U | | 0.325 (L) | |
| **9Cl-PF3ONS** | U | | 0.325 (L) | |
| **11Cl-PF3OUdS** | U | | 0.325 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-5_Form1A_FC0L_166S35_SJ2750232.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18-SED-COMP-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-5 |
| **Matrix:** | SOLID | **Sample Size:** | 4.92 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:23:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 31.6 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.7 | 94.2 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.5 | 108 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.83 | 98.3 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.75 | 97.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.26 | 92.6 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.48 | 89.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.36 | 107 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.31 | 106 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.53 | 111 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.65 | 93.0 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.76 | 97.6 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.68 | 96.8 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.0 | 94.9 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.4 | 82.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.5 | 103 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.84 | 98.4 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 5.24 | 52.4 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.39 | 43.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.7 | 119 | 7:35 |
| **D5-EtFOSAA** | | 20.0 | 27.7 | 138 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 79.3 | 79.3 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 85.6 | 85.6 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.1 | 95.3 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-5_Form2_FC0L_166S35_SJ2750232.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-SED-COMP-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 09:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.18 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:36:24 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 11.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.425 | 0.309 (L) | 1:57 |
| **PFPeA** | U | | 0.154 (L) | |
| **PFHxA** | U | | 0.0772 (L) | |
| **PFHpA** | U | | 0.0772 (L) | |
| **PFOA** | | 0.344 | 0.0772 (L) | |
| **PFNA** | U | | 0.0772 (L) | |
| **PFDA** | J | 0.103 | 0.0772 (L) | 7:32 |
| **PFUnA** | U | | 0.0772 (L) | |
| **PFDoA** | U | | 0.0772 (L) | |
| **PFTrDA** | U | | 0.0772 (L) | |
| **PFTeDA** | U | | 0.0772 (L) | |
| **PFBS** | U | | 0.0772 (L) | |
| **PFPeS** | U | | 0.0772 (L) | |
| **PFHxS** | U | | 0.0772 (L) | |
| **PFHpS** | U | | 0.0772 (L) | |
| **PFOS** | | 4.20 | 0.0772 (L) | |
| **PFNS** | U | | 0.0772 (L) | |
| **PFDS** | U | | 0.0772 (L) | |
| **PFDoS** | U | | 0.0772 (L) | |
| **4:2 FTS** | U | | 0.309 (L) | |
| **6:2 FTS** | U | | 0.278 (L) | |
| **8:2 FTS** | U | | 0.309 (L) | |
| **PFOSA** | J | 0.203 | 0.0772 (L) | |
| **N-MeFOSA** | U | | 0.0888 (L) | |
| **N-EtFOSA** | U | | 0.193 (L) | |
| **MeFOSAA** | U | | 0.0772 (L) | |
| **EtFOSAA** | U | | 0.0772 (L) | |
| **N-MeFOSE** | U | | 0.772 (L) | |
| **N-EtFOSE** | U | | 0.579 (L) | |
| **HFPO-DA** | U | | 0.293 (L) | |
| **ADONA** | U | | 0.309 (L) | |
| **9Cl-PF3ONS** | U | | 0.309 (L) | |
| **11Cl-PF3OUdS** | U | | 0.309 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-6_Form1A_FC0L_166S36_SJ2750233.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-SED-COMP-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 09:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.18 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:36:24 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 11.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.3 | 93.2 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.2 | 106 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.61 | 96.1 | 5:26 |
| **13C8-PFOA** | | 10.0 | 9.17 | 91.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.57 | 91.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.95 | 99.1 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.83 | 96.5 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.92 | 98.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.27 | 85.4 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.27 | 92.7 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.32 | 93.2 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.66 | 96.6 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 20.7 | 103 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.8 | 88.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.5 | 97.7 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.00 | 90.0 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 9.00 | 90.0 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 8.39 | 83.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 19.9 | 99.5 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.7 | 114 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 97.2 | 97.2 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 98.2 | 98.2 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 39.7 | 99.1 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-6_Form2_FC0L_166S36_SJ2750233.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**FC1-SED-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 14:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-7 |
| **Matrix:** | SOLID | **Sample Size:** | 4.92 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:49:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 35.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.463 | 0.325 (L) | 1:58 |
| **PFPeA** | U | | 0.162 (L) | |
| **PFHxA** | U | | 0.0812 (L) | |
| **PFHpA** | U | | 0.0812 (L) | |
| **PFOA** | J | 0.145 | 0.0812 (L) | |
| **PFNA** | U | | 0.0812 (L) | |
| **PFDA** | U | | 0.0812 (L) | |
| **PFUnA** | U | | 0.0812 (L) | |
| **PFDoA** | U | | 0.0812 (L) | |
| **PFTrDA** | U | | 0.0812 (L) | |
| **PFTeDA** | U | | 0.0812 (L) | |
| **PFBS** | U | | 0.0812 (L) | |
| **PFPeS** | U | | 0.0812 (L) | |
| **PFHxS** | U | | 0.0812 (L) | |
| **PFHpS** | U | | 0.0812 (L) | |
| **PFOS** | | 0.854 | 0.0812 (L) | |
| **PFNS** | U | | 0.0812 (L) | |
| **PFDS** | U | | 0.0812 (L) | |
| **PFDoS** | U | | 0.0812 (L) | |
| **4:2 FTS** | U | | 0.325 (L) | |
| **6:2 FTS** | U | | 0.292 (L) | |
| **8:2 FTS** | U | | 0.325 (L) | |
| **PFOSA** | U | | 0.0812 (L) | |
| **N-MeFOSA** | U | | 0.0934 (L) | |
| **N-EtFOSA** | U | | 0.203 (L) | |
| **MeFOSAA** | U | | 0.0812 (L) | |
| **EtFOSAA** | U | | 0.0812 (L) | |
| **N-MeFOSE** | U | | 0.812 (L) | |
| **N-EtFOSE** | U | | 0.609 (L) | |
| **HFPO-DA** | U | | 0.309 (L) | |
| **ADONA** | U | | 0.325 (L) | |
| **9Cl-PF3ONS** | U | | 0.325 (L) | |
| **11Cl-PF3OUdS** | U | | 0.325 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-7_Form1A_FC0L_166S37_SJ2750234.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**FC1-SED-0-3-01-042320**
**Sample Collection:**
**23-Apr-2020 14:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-7 |
| **Matrix:** | SOLID | **Sample Size:** | 4.92 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 00:49:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 35.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.5 | 88.8 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 103 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.72 | 97.2 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.72 | 97.2 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.38 | 93.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.61 | 92.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.57 | 111 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.05 | 101 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.95 | 99.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.33 | 86.6 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.15 | 91.5 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.62 | 96.2 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.3 | 103 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.0 | 94.8 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 15.9 | 79.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.6 | 93.1 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.54 | 95.4 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.09 | 70.9 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.70 | 57.0 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.6 | 118 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 25.0 | 125 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 87.5 | 87.5 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 72.9 | 72.9 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 94.0 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-7_Form2_FC0L_166S37_SJ2750234.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-12-18-01-042420**
**Sample Collection:**
**24-Apr-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-8 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:02:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 18.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.431 | 0.318 (L) | 1:57 |
| **PFPeA** | U | | 0.159 (L) | |
| **PFHxA** | J | 0.120 | 0.0795 (L) | 4:57 |
| **PFHpA** | J | 0.089 | 0.0795 (L) | 5:26 |
| **PFOA** | | 0.624 | 0.0795 (L) | |
| **PFNA** | U | | 0.0795 (L) | |
| **PFDA** | J | 0.126 | 0.0795 (L) | 7:32 |
| **PFUnA** | U | | 0.0795 (L) | |
| **PFDoA** | U | | 0.0795 (L) | |
| **PFTrDA** | U | | 0.0795 (L) | |
| **PFTeDA** | U | | 0.0795 (L) | |
| **PFBS** | U | | 0.0795 (L) | |
| **PFPeS** | U | | 0.0795 (L) | |
| **PFHxS** | U | | 0.0795 (L) | |
| **PFHpS** | U | | 0.0795 (L) | |
| **PFOS** | | 6.69 | 0.0795 (L) | |
| **PFNS** | U | | 0.0795 (L) | |
| **PFDS** | U | | 0.0795 (L) | |
| **PFDoS** | U | | 0.0795 (L) | |
| **4:2 FTS** | U | | 0.318 (L) | |
| **6:2 FTS** | U | | 0.286 (L) | |
| **8:2 FTS** | U | | 0.318 (L) | |
| **PFOSA** | | 0.540 | 0.0795 (L) | |
| **N-MeFOSA** | U | | 0.0915 (L) | |
| **N-EtFOSA** | U | | 0.199 (L) | |
| **MeFOSAA** | U | | 0.0795 (L) | |
| **EtFOSAA** | U | | 0.0795 (L) | |
| **N-MeFOSE** | U | | 0.795 (L) | |
| **N-EtFOSE** | U | | 0.596 (L) | |
| **HFPO-DA** | U | | 0.302 (L) | |
| **ADONA** | U | | 0.318 (L) | |
| **9Cl-PF3ONS** | U | | 0.318 (L) | |
| **11Cl-PF3OUdS** | U | | 0.318 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-8_Form1A_FC0L_166S38_SJ2750235.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-12-18-01-042420**
**Sample Collection:**
**24-Apr-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-8 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:02:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 18.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.8 | 92.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 101 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.84 | 98.4 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.81 | 98.1 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.02 | 90.2 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.81 | 96.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.78 | 95.6 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.67 | 93.5 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.69 | 93.9 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.17 | 83.4 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.57 | 95.7 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 8.98 | 89.8 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.93 | 99.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.0 | 100 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 18.3 | 91.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.96 | 89.6 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.97 | 79.7 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.91 | 69.1 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 18.1 | 90.7 | 7:35 |
| **D5-EtFOSAA** | | 20.0 | 21.6 | 108 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 90.0 | 90.0 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 91.2 | 91.2 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 37.9 | 94.8 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-8_Form2_FC0L_166S38_SJ2750235.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-30-36-01-042420**
**Sample Collection:**
**24-Apr-2020 14:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-9 |
| **Matrix:** | SOLID | **Sample Size:** | 5.11 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:15:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 18.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.548 | 0.313 (L) | 1:57 |
| **PFPeA** | U | | 0.157 (L) | |
| **PFHxA** | | 0.159 | 0.0783 (L) | 4:57 |
| **PFHpA** | J | 0.121 | 0.0783 (L) | 5:26 |
| **PFOA** | | 0.872 | 0.0783 (L) | |
| **PFNA** | U | | 0.0783 (L) | |
| **PFDA** | J | 0.117 | 0.0783 (L) | 7:32 |
| **PFUnA** | U | | 0.0783 (L) | |
| **PFDoA** | U | | 0.0783 (L) | |
| **PFTrDA** | U | | 0.0783 (L) | |
| **PFTeDA** | U | | 0.0783 (L) | |
| **PFBS** | U | | 0.0783 (L) | |
| **PFPeS** | U | | 0.0783 (L) | |
| **PFHxS** | U | | 0.0783 (L) | |
| **PFHpS** | U | | 0.0783 (L) | |
| **PFOS** | | 5.37 | 0.0783 (L) | |
| **PFNS** | U | | 0.0783 (L) | |
| **PFDS** | U | | 0.0783 (L) | |
| **PFDoS** | U | | 0.0783 (L) | |
| **4:2 FTS** | U | | 0.313 (L) | |
| **6:2 FTS** | U | | 0.282 (L) | |
| **8:2 FTS** | U | | 0.313 (L) | |
| **PFOSA** | | 0.310 | 0.0783 (L) | |
| **N-MeFOSA** | U | | 0.0901 (L) | |
| **N-EtFOSA** | U | | 0.196 (L) | |
| **MeFOSAA** | U | | 0.0783 (L) | |
| **EtFOSAA** | U | | 0.0783 (L) | |
| **N-MeFOSE** | U | | 0.783 (L) | |
| **N-EtFOSE** | U | | 0.588 (L) | |
| **HFPO-DA** | U | | 0.298 (L) | |
| **ADONA** | U | | 0.313 (L) | |
| **9Cl-PF3ONS** | U | | 0.313 (L) | |
| **11Cl-PF3OUdS** | U | | 0.313 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-9_Form1A_FC0L_166S39_SJ2750236.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-30-36-01-042420**
**Sample Collection:**
**24-Apr-2020 14:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-9 |
| **Matrix:** | SOLID | **Sample Size:** | 5.11 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:15:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 18.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.8 | 86.9 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 18.7 | 93.3 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.46 | 94.6 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.29 | 92.9 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.68 | 86.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.71 | 94.1 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.68 | 93.6 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.50 | 89.9 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.23 | 84.6 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.63 | 96.3 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 8.83 | 88.3 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.01 | 90.1 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.9 | 99.5 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.4 | 82.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.1 | 90.3 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.84 | 88.4 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.35 | 83.5 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.71 | 77.1 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 18.2 | 91.0 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.0 | 110 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 89.5 | 89.5 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 94.5 | 94.5 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.3 | 90.9 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-9_Form2_FC0L_166S39_SJ2750236.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-0-4-01-042420**
**Sample Collection:**
**24-Apr-2020 10:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | L33050-10 |
| **Sample Receipt Date:** | 07-May-2020 | **Sample Size:** | 5.29 g (dry) |
| **Extraction Date:** | 26-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 28-May-2020 **Time:** 01:28:28 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_166 S: 40** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Concentration Units:** | ng/g (dry weight basis) | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| | | **% Moisture:** | 47.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.612 | 0.302 (L) | 1:57 |
| **PFPeA** | U | | 0.151 (L) | |
| **PFHxA** | J | 0.088 | 0.0756 (L) | 4:57 |
| **PFHpA** | U | | 0.0756 (L) | |
| **PFOA** | | 0.664 | 0.0756 (L) | |
| **PFNA** | U | | 0.0756 (L) | |
| **PFDA** | | 0.200 | 0.0756 (L) | 7:32 |
| **PFUnA** | U | | 0.0756 (L) | |
| **PFDoA** | J | 0.118 | 0.0756 (L) | 8:08 |
| **PFTrDA** | U | | 0.0756 (L) | |
| **PFTeDA** | U | | 0.0756 (L) | |
| **PFBS** | U | | 0.0756 (L) | |
| **PFPeS** | U | | 0.0756 (L) | |
| **PFHxS** | J | 0.120 | 0.0756 (L) | |
| **PFHpS** | U | | 0.0756 (L) | |
| **PFOS** | | 24.0 | 0.0756 (L) | |
| **PFNS** | J | 0.097 | 0.0756 (L) | 7:57 |
| **PFDS** | | 0.323 | 0.0756 (L) | 8:15 |
| **PFDoS** | J | 0.098 | 0.0756 (L) | 9:05 |
| **4:2 FTS** | U | | 0.302 (L) | |
| **6:2 FTS** | J | 1.01 | 0.272 (L) | 5:53 |
| **8:2 FTS** | U | | 0.302 (L) | |
| **PFOSA** | | 2.47 | 0.0756 (L) | |
| **N-MeFOSA** | | 0.313 | 0.0870 (L) | |
| **N-EtFOSA** | | 0.576 | 0.189 (L) | |
| **MeFOSAA** | J | 0.091 | 0.0756 (L) | |
| **EtFOSAA** | | 3.98 | 0.0756 (L) | |
| **N-MeFOSE** | U | | 0.756 (L) | |
| **N-EtFOSE** | U | | 0.567 (L) | |
| **HFPO-DA** | U | | 0.287 (L) | |
| **ADONA** | U | | 0.302 (L) | |
| **9Cl-PF3ONS** | U | | 0.302 (L) | |
| **11Cl-PF3OUdS** | U | | 0.302 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-10_Form1A_FC0L_166S40_SJ2750237.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-SED-0-4-01-042420**
**Sample Collection:**
**24-Apr-2020 10:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-10 |
| **Matrix:** | SOLID | **Sample Size:** | 5.29 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:28:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 47.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 11.7 | 29.2 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 101 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.97 | 99.7 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.83 | 98.3 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.27 | 92.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.39 | 87.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.45 | 109 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.56 | 111 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.56 | 111 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.81 | 76.3 | 8:54 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.66 | 96.6 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.4 | 104 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.0 | 79.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.7 | 108 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.7 | 107 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.14 | 61.4 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.17 | 51.7 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 26.5 | 133 | 7:35 |
| **D5-EtFOSAA** | | 20.0 | 27.9 | 139 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 70.1 | 70.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 67.2 | 67.2 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 39.2 | 98.1 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-10_Form2_FC0L_166S40_SJ2750237.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-4-6-01-042420**
**Sample Collection:**
**24-Apr-2020 10:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-11 |
| **Matrix:** | SOLID | **Sample Size:** | 5.21 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:41:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 25.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.481 | 0.307 (L) | 1:58 |
| **PFPeA** | U | | 0.154 (L) | |
| **PFHxA** | J | 0.083 | 0.0768 (L) | 4:57 |
| **PFHpA** | U | | 0.0768 (L) | |
| **PFOA** | | 0.653 | 0.0768 (L) | |
| **PFNA** | U | | 0.0768 (L) | |
| **PFDA** | | 0.194 | 0.0768 (L) | 7:32 |
| **PFUnA** | U | | 0.0768 (L) | |
| **PFDoA** | U | | 0.0768 (L) | |
| **PFTrDA** | U | | 0.0768 (L) | |
| **PFTeDA** | U | | 0.0768 (L) | |
| **PFBS** | U | | 0.0768 (L) | |
| **PFPeS** | U | | 0.0768 (L) | |
| **PFHxS** | J | 0.108 | 0.0768 (L) | |
| **PFHpS** | U | | 0.0768 (L) | |
| **PFOS** | | 24.1 | 0.0768 (L) | |
| **PFNS** | U | | 0.0768 (L) | |
| **PFDS** | J | 0.080 | 0.0768 (L) | 8:15 |
| **PFDoS** | U | | 0.0768 (L) | |
| **4:2 FTS** | U | | 0.307 (L) | |
| **6:2 FTS** | U | | 0.276 (L) | |
| **8:2 FTS** | U | | 0.307 (L) | |
| **PFOSA** | | 3.89 | 0.0768 (L) | |
| **N-MeFOSA** | | 0.414 | 0.0883 (L) | |
| **N-EtFOSA** | | 0.405 | 0.192 (L) | |
| **MeFOSAA** | U | | 0.0768 (L) | |
| **EtFOSAA** | | 3.25 | 0.0768 (L) | |
| **N-MeFOSE** | U | | 0.768 (L) | |
| **N-EtFOSE** | U | | 0.576 (L) | |
| **HFPO-DA** | U | | 0.292 (L) | |
| **ADONA** | U | | 0.307 (L) | |
| **9Cl-PF3ONS** | U | | 0.307 (L) | |
| **11Cl-PF3OUdS** | U | | 0.307 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-11_Form1A_FC0L_166S41_SJ2750238.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-4-6-01-042420**
**Sample Collection:**
**24-Apr-2020 10:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-11 |
| **Matrix:** | SOLID | **Sample Size:** | 5.21 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:41:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 25.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.7 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.3 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.38 | 93.8 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.20 | 92.0 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.10 | 91.0 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.87 | 97.5 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.92 | 98.5 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.92 | 98.5 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.17 | 83.4 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.42 | 94.2 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.30 | 93.0 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.7 | 107 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.3 | 96.7 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 15.5 | 77.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 89.2 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.3 | 103 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.26 | 82.6 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.36 | 73.6 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 23.9 | 119 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 26.8 | 134 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 104 | 104 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 106 | 106 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 34.1 | 85.4 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-11_Form2_FC0L_166S41_SJ2750238.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-22-26-01-042420**
**Sample Collection:**
**24-Apr-2020 10:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-12 |
| **Matrix:** | SOLID | **Sample Size:** | 5.12 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:54:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 22.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.402 | 0.312 (L) | 1:57 |
| **PFPeA** | U | | 0.156 (L) | |
| **PFHxA** | U | | 0.0781 (L) | |
| **PFHpA** | U | | 0.0781 (L) | |
| **PFOA** | | 0.173 | 0.0781 (L) | |
| **PFNA** | U | | 0.0781 (L) | |
| **PFDA** | U | | 0.0781 (L) | |
| **PFUnA** | U | | 0.0781 (L) | |
| **PFDoA** | U | | 0.0781 (L) | |
| **PFTrDA** | U | | 0.0781 (L) | |
| **PFTeDA** | U | | 0.0781 (L) | |
| **PFBS** | U | | 0.0781 (L) | |
| **PFPeS** | U | | 0.0781 (L) | |
| **PFHxS** | U | | 0.0781 (L) | |
| **PFHpS** | U | | 0.0781 (L) | |
| **PFOS** | | 3.25 | 0.0781 (L) | |
| **PFNS** | U | | 0.0781 (L) | |
| **PFDS** | U | | 0.0781 (L) | |
| **PFDoS** | U | | 0.0781 (L) | |
| **4:2 FTS** | U | | 0.312 (L) | |
| **6:2 FTS** | U | | 0.281 (L) | |
| **8:2 FTS** | U | | 0.312 (L) | |
| **PFOSA** | | 0.881 | 0.0781 (L) | |
| **N-MeFOSA** | | 0.347 | 0.0898 (L) | |
| **N-EtFOSA** | | 0.744 | 0.195 (L) | |
| **MeFOSAA** | U | | 0.0781 (L) | |
| **EtFOSAA** | | 0.636 | 0.0781 (L) | |
| **N-MeFOSE** | U | | 0.781 (L) | |
| **N-EtFOSE** | U | | 0.585 (L) | |
| **HFPO-DA** | U | | 0.297 (L) | |
| **ADONA** | U | | 0.312 (L) | |
| **9Cl-PF3ONS** | U | | 0.312 (L) | |
| **11Cl-PF3OUdS** | U | | 0.312 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-12_Form1A_FC0L_166S42_SJ2750239.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-22-26-01-042420**
**Sample Collection:**
**24-Apr-2020 10:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-12 |
| **Matrix:** | SOLID | **Sample Size:** | 5.12 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 01:54:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 22.5 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.5 | 96.3 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.5 | 108 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.5 | 105 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.75 | 97.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.57 | 95.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.77 | 95.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.35 | 107 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.27 | 105 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.28 | 106 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.68 | 93.5 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.46 | 94.6 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.37 | 93.7 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.93 | 99.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.9 | 105 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.9 | 94.6 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.74 | 97.4 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.27 | 82.7 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.86 | 78.6 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 20.7 | 103 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 24.6 | 123 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 105 | 105 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 107 | 107 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 38.5 | 96.2 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-12_Form2_FC0L_166S42_SJ2750239.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-WET-3-12-01-042420**
**Sample Collection:**
**24-Apr-2020 10:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-13 |
| **Matrix:** | SOLID | **Sample Size:** | 5.05 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:07:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 49.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 2.54 | 0.317 (L) | 1:57 |
| **PFPeA** | J | 0.250 | 0.158 (L) | 4:22 |
| **PFHxA** | | 0.341 | 0.0792 (L) | 4:57 |
| **PFHpA** | | 0.353 | 0.0792 (L) | 5:25 |
| **PFOA** | | 5.13 | 0.0792 (L) | |
| **PFNA** | | 0.174 | 0.0792 (L) | |
| **PFDA** | | 1.32 | 0.0792 (L) | 7:32 |
| **PFUnA** | | 0.336 | 0.0792 (L) | 7:51 |
| **PFDoA** | | 0.394 | 0.0792 (L) | 8:07 |
| **PFTrDA** | U | | 0.0792 (L) | |
| **PFTeDA** | J | 0.083 | 0.0792 (L) | 8:53 |
| **PFBS** | U | | 0.0792 (L) | |
| **PFPeS** | J | 0.098 | 0.0792 (L) | 5:28 |
| **PFHxS** | | 0.445 | 0.0792 (L) | |
| **PFHpS** | | 0.451 | 0.0792 (L) | 7:09 |
| **PFOS** | | 159 | 0.0792 (L) | |
| **PFNS** | | 0.362 | 0.0792 (L) | 7:56 |
| **PFDS** | | 1.31 | 0.0792 (L) | 8:15 |
| **PFDoS** | | 0.235 | 0.0792 (L) | 9:05 |
| **4:2 FTS** | U | | 0.317 (L) | |
| **6:2 FTS** | U | | 0.285 (L) | |
| **8:2 FTS** | U | | 0.317 (L) | |
| **PFOSA** | | 5.07 | 0.0792 (L) | |
| **N-MeFOSA** | J | 0.122 | 0.0910 (L) | |
| **N-EtFOSA** | U | | 0.198 (L) | |
| **MeFOSAA** | J | 0.125 | 0.0792 (L) | |
| **EtFOSAA** | | 1.53 | 0.0792 (L) | |
| **N-MeFOSE** | U | | 0.792 (L) | |
| **N-EtFOSE** | U | | 0.594 (L) | |
| **HFPO-DA** | U | | 0.301 (L) | |
| **ADONA** | U | | 0.317 (L) | |
| **9Cl-PF3ONS** | U | | 0.317 (L) | |
| **11Cl-PF3OUdS** | U | | 0.317 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-13_Form1A_FC0L_166S43_SJ2750240.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-WET-3-12-01-042420**
**Sample Collection:**
**24-Apr-2020 10:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-13 |
| **Matrix:** | SOLID | **Sample Size:** | 5.05 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:07:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 49.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 8.39 | 21.0 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 95.0 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.2 | 102 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.45 | 94.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.37 | 93.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.68 | 93.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.03 | 101 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.27 | 105 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.11 | 102 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.82 | 76.5 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.41 | 94.1 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.24 | 92.4 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.7 | 107 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.1 | 115 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 15.6 | 77.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.2 | 111 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 12.1 | 121 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 9.40 | 94.0 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.26 | 72.6 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 31.9 | 160 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 34.0 | 170 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 82.9 | 82.9 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 73.1 | 73.1 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.3 | 90.7 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-13_Form2_FC0L_166S43_SJ2750240.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-WET-12-18-01-042420**
**Sample Collection:**
**24-Apr-2020 11:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-14 |
| **Matrix:** | SOLID | **Sample Size:** | 5.21 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:20:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 26.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.491 | 0.307 (L) | 1:58 |
| **PFPeA** | U | | 0.154 (L) | |
| **PFHxA** | J | 0.114 | 0.0768 (L) | 4:57 |
| **PFHpA** | J | 0.086 | 0.0768 (L) | 5:25 |
| **PFOA** | | 0.727 | 0.0768 (L) | |
| **PFNA** | U | | 0.0768 (L) | |
| **PFDA** | J | 0.139 | 0.0768 (L) | 7:32 |
| **PFUnA** | U | | 0.0768 (L) | |
| **PFDoA** | U | | 0.0768 (L) | |
| **PFTrDA** | U | | 0.0768 (L) | |
| **PFTeDA** | U | | 0.0768 (L) | |
| **PFBS** | U | | 0.0768 (L) | |
| **PFPeS** | U | | 0.0768 (L) | |
| **PFHxS** | J | 0.082 | 0.0768 (L) | |
| **PFHpS** | U | | 0.0768 (L) | |
| **PFOS** | | 19.8 | 0.0768 (L) | |
| **PFNS** | U | | 0.0768 (L) | |
| **PFDS** | J | 0.121 | 0.0768 (L) | 8:15 |
| **PFDoS** | U | | 0.0768 (L) | |
| **4:2 FTS** | U | | 0.307 (L) | |
| **6:2 FTS** | U | | 0.276 (L) | |
| **8:2 FTS** | U | | 0.307 (L) | |
| **PFOSA** | | 1.38 | 0.0768 (L) | |
| **N-MeFOSA** | | 0.189 | 0.0883 (L) | |
| **N-EtFOSA** | U | | 0.192 (L) | |
| **MeFOSAA** | U | | 0.0768 (L) | |
| **EtFOSAA** | | 0.460 | 0.0768 (L) | |
| **N-MeFOSE** | U | | 0.768 (L) | |
| **N-EtFOSE** | U | | 0.576 (L) | |
| **HFPO-DA** | U | | 0.292 (L) | |
| **ADONA** | U | | 0.307 (L) | |
| **9Cl-PF3ONS** | U | | 0.307 (L) | |
| **11Cl-PF3OUdS** | U | | 0.307 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-14_Form1A_FC0L_166S44_SJ2750241.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-SED-WET-12-18-01-042420**
**Sample Collection:**
**24-Apr-2020 11:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-14 |
| **Matrix:** | SOLID | **Sample Size:** | 5.21 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:20:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 26.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.1 | 92.7 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.2 | 106 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.2 | 102 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 8.90 | 89.0 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.13 | 91.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.07 | 101 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.07 | 101 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.17 | 103 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.26 | 85.2 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.42 | 94.2 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.35 | 93.5 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.86 | 98.6 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.1 | 95.7 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.8 | 93.9 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.23 | 92.3 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.43 | 84.3 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.45 | 74.5 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 20.6 | 103 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 25.3 | 127 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 101 | 101 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 103 | 103 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.1 | 90.3 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-14_Form2_FC0L_166S44_SJ2750241.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC6-SED-WET-0-6-01-042420**
**Sample Collection:**
**24-Apr-2020 11:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-15 |
| **Matrix:** | SOLID | **Sample Size:** | 3.30 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:33:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 67.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 3.05 | 0.485 (L) | 1:57 |
| **PFPeA** | J | 0.423 | 0.243 (L) | 4:22 |
| **PFHxA** | | 0.943 | 0.121 (L) | 4:57 |
| **PFHpA** | | 1.06 | 0.121 (L) | 5:25 |
| **PFOA** | | 14.9 | 0.121 (L) | |
| **PFNA** | | 0.303 | 0.121 (L) | |
| **PFDA** | | 1.54 | 0.121 (L) | 7:32 |
| **PFUnA** | | 0.434 | 0.121 (L) | 7:51 |
| **PFDoA** | | 1.40 | 0.121 (L) | 8:07 |
| **PFTrDA** | | 0.377 | 0.121 (L) | 8:28 |
| **PFTeDA** | | 0.269 | 0.121 (L) | 8:54 |
| **PFBS** | | 0.331 | 0.121 (L) | 4:55 |
| **PFPeS** | | 0.406 | 0.121 (L) | 5:28 |
| **PFHxS** | | 1.81 | 0.121 (L) | |
| **PFHpS** | | 1.27 | 0.121 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | | 0.608 | 0.121 (L) | 7:56 |
| **PFDS** | | 4.83 | 0.121 (L) | 8:15 |
| **PFDoS** | | 2.51 | 0.121 (L) | 9:05 |
| **4:2 FTS** | U | | 0.485 (L) | |
| **6:2 FTS** | U | | 0.437 (L) | |
| **8:2 FTS** | U | | 0.485 (L) | |
| **PFOSA** | | 10.2 | 0.121 (L) | |
| **N-MeFOSA** | | 1.30 | 0.139 (L) | |
| **N-EtFOSA** | | 1.13 | 0.303 (L) | |
| **MeFOSAA** | | 0.635 | 0.121 (L) | |
| **EtFOSAA** | | 23.4 | 0.121 (L) | |
| **N-MeFOSE** | U | | 1.21 (L) | |
| **N-EtFOSE** | J | 1.06 | 0.910 (L) | |
| **HFPO-DA** | U | | 0.461 (L) | |
| **ADONA** | U | | 0.485 (L) | |
| **9Cl-PF3ONS** | U | | 0.485 (L) | |
| **11Cl-PF3OUdS** | U | | 0.485 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-15_Form1A_FC0L_166S45_SJ2750242.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC6-SED-WET-0-6-01-042420**
**Sample Collection:**
**24-Apr-2020 11:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-15 |
| **Matrix:** | SOLID | **Sample Size:** | 3.30 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:33:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 67.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 6.85 | 17.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.7 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.85 | 98.5 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.18 | 91.8 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.78 | 87.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.30 | 106 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 5.22 | 104 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.00 | 100 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.53 | 70.5 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.49 | 94.9 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.38 | 93.8 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.55 | 95.5 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 24.5 | 123 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.3 | 81.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.6 | 113 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.8 | 108 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.80 | 68.0 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.64 | 56.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 30.1 | 150 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 32.9 | 165 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 63.3 | 63.3 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 55.0 | 55.0 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.8 | 92.0 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-15_Form2_FC0L_166S45_SJ2750242.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC6-SED-WET-0-6-01-042420**
**Sample Collection:**
**24-Apr-2020 11:20**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | L33050-15 N |
| **Sample Receipt Date:** | 07-May-2020 | **Sample Size:** | 3.30 g (dry) |
| **Extraction Date:** | 26-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 04-Jun-2020 **Time:** 13:14:08 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_176 S: 23** |
| **Dilution Factor:** | 5 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Concentration Units:** | ng/g (dry weight basis) | **Cal. Ver. Data Filename:** | FC0L_176 S: 12 |
| | | **% Moisture:** | 67.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 261 | 0.606 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-15_Form1A_FC0L_176S23_SJ2750471.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC6-SED-WET-0-6-01-042420**
**Sample Collection:**
**24-Apr-2020 11:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-15 N |
| **Matrix:** | SOLID | **Sample Size:** | 3.30 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 04-Jun-2020 **Time:** 13:14:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_176 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_176 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 67.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 11.2 | 112 | 7:36 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-15_Form2_FC0L_176S23_SJ2750471.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC6-SED-WET-12-18-01-042420**
**Sample Collection:**
**24-Apr-2020 11:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | L33050-16 |
| **Sample Receipt Date:** | 07-May-2020 | **Sample Size:** | 5.14 g (dry) |
| **Extraction Date:** | 26-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 28-May-2020 **Time:** 02:46:43 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_166 S: 46** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Concentration Units:** | ng/g (dry weight basis) | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| | | **% Moisture:** | 37.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1.26 | 0.311 (L) | 1:57 |
| **PFPeA** | J | 0.158 | 0.156 (L) | 4:22 |
| **PFHxA** | | 0.382 | 0.0778 (L) | 4:57 |
| **PFHpA** | | 0.371 | 0.0778 (L) | 5:25 |
| **PFOA** | | 4.11 | 0.0778 (L) | |
| **PFNA** | J | 0.087 | 0.0778 (L) | |
| **PFDA** | | 0.579 | 0.0778 (L) | 7:32 |
| **PFUnA** | J | 0.131 | 0.0778 (L) | 7:51 |
| **PFDoA** | | 0.350 | 0.0778 (L) | 8:07 |
| **PFTrDA** | U | | 0.0778 (L) | |
| **PFTeDA** | U | | 0.0778 (L) | |
| **PFBS** | J | 0.123 | 0.0778 (L) | 4:54 |
| **PFPeS** | J | 0.114 | 0.0778 (L) | 5:28 |
| **PFHxS** | | 0.485 | 0.0778 (L) | |
| **PFHpS** | | 0.298 | 0.0778 (L) | 7:09 |
| **PFOS** | | 77.1 | 0.0778 (L) | |
| **PFNS** | | 0.256 | 0.0778 (L) | 7:56 |
| **PFDS** | | 1.04 | 0.0778 (L) | 8:15 |
| **PFDoS** | | 0.580 | 0.0778 (L) | 9:05 |
| **4:2 FTS** | U | | 0.311 (L) | |
| **6:2 FTS** | U | | 0.280 (L) | |
| **8:2 FTS** | U | | 0.311 (L) | |
| **PFOSA** | | 13.8 | 0.0778 (L) | |
| **N-MeFOSA** | | 2.75 | 0.0895 (L) | |
| **N-EtFOSA** | | 0.919 | 0.195 (L) | |
| **MeFOSAA** | | 0.792 | 0.0778 (L) | |
| **EtFOSAA** | | 5.96 | 0.0778 (L) | |
| **N-MeFOSE** | U | | 0.778 (L) | |
| **N-EtFOSE** | U | | 0.584 (L) | |
| **HFPO-DA** | U | | 0.296 (L) | |
| **ADONA** | U | | 0.311 (L) | |
| **9Cl-PF3ONS** | U | | 0.311 (L) | |
| **11Cl-PF3OUdS** | U | | 0.311 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-16_Form1A_FC0L_166S46_SJ2750243.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC6-SED-WET-12-18-01-042420**
**Sample Collection:**
**24-Apr-2020 11:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-16 |
| **Matrix:** | SOLID | **Sample Size:** | 5.14 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:46:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 37.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.4 | 91.0 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 21.1 | 106 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.35 | 93.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.12 | 91.2 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.53 | 90.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.89 | 97.9 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 5.06 | 101 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 5.11 | 102 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.31 | 86.1 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.38 | 93.8 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.28 | 92.8 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.4 | 104 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 18.0 | 90.0 | 4:49 |
| **13C2-6:2 FTS** | | 20.0 | 15.0 | 75.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 89.2 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.12 | 71.2 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 6.18 | 61.8 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.4 | 112 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 28.5 | 142 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 98.5 | 98.5 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 98.2 | 98.2 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 37.2 | 93.1 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-16_Form2_FC0L_166S46_SJ2750243.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 09:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-17 |
| **Matrix:** | SOLID | **Sample Size:** | 5.01 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:59:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 47.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 2.28 | 0.320 (L) | 1:57 |
| **PFPeA** | J | 0.282 | 0.160 (L) | 4:22 |
| **PFHxA** | | 0.497 | 0.0799 (L) | 4:57 |
| **PFHpA** | | 0.618 | 0.0799 (L) | 5:25 |
| **PFOA** | | 7.73 | 0.0799 (L) | |
| **PFNA** | J | 0.148 | 0.0799 (L) | |
| **PFDA** | | 0.803 | 0.0799 (L) | 7:32 |
| **PFUnA** | J | 0.116 | 0.0799 (L) | 7:51 |
| **PFDoA** | | 0.349 | 0.0799 (L) | 8:07 |
| **PFTrDA** | | 0.178 | 0.0799 (L) | 8:28 |
| **PFTeDA** | J | 0.155 | 0.0799 (L) | 8:53 |
| **PFBS** | | 0.173 | 0.0799 (L) | 4:54 |
| **PFPeS** | | 0.255 | 0.0799 (L) | 5:28 |
| **PFHxS** | | 0.813 | 0.0799 (L) | |
| **PFHpS** | | 0.562 | 0.0799 (L) | 7:09 |
| **PFOS** | | 140 | 0.155 (S) | |
| **PFNS** | | 0.151 | 0.0799 (L) | 7:56 |
| **PFDS** | | 1.12 | 0.0799 (L) | 8:14 |
| **PFDoS** | | 0.777 | 0.0799 (L) | 9:04 |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | | 14.1 | 0.0799 (L) | |
| **N-MeFOSA** | | 0.314 | 0.0919 (L) | |
| **N-EtFOSA** | | 4.60 | 0.200 (L) | |
| **MeFOSAA** | J | 0.141 | 0.0799 (L) | |
| **EtFOSAA** | | 16.8 | 0.0799 (L) | |
| **N-MeFOSE** | U | | 0.799 (L) | |
| **N-EtFOSE** | | 1.48 | 0.599 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-17_Form1A_FC0L_166S47_SJ2750244.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 09:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-17 |
| **Matrix:** | SOLID | **Sample Size:** | 5.01 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 02:59:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 47.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 4.44 | 11.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 14.7 | 73.7 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.2 | 102 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.73 | 97.3 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.78 | 97.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.42 | 88.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.86 | 97.2 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.71 | 94.2 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.91 | 98.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.37 | 67.3 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.35 | 93.5 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.37 | 93.7 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 24.4 | 122 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.6 | 82.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 27.2 | 136 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.9 | 109 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.71 | 67.1 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.18 | 51.8 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 30.9 | 155 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 33.9 | 169 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 54.1 | 54.1 | 9:58 |
| **d9-NEt-FOSE** | V | 100 | 43.4 | 43.4 | 10:15 |
| **13C3-HFPO-DA** | | 40.0 | 39.3 | 98.3 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-17_Form2_FC0L_166S47_SJ2750244.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-SED-WET-12-18-01-042520**
**Sample Collection:**
**25-Apr-2020 09:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-18 |
| **Matrix:** | SOLID | **Sample Size:** | 5.12 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 03:12:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 33.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.619 | 0.313 (L) | 1:57 |
| **PFPeA** | U | | 0.156 (L) | |
| **PFHxA** | | 0.238 | 0.0781 (L) | 4:57 |
| **PFHpA** | | 0.181 | 0.0781 (L) | 5:25 |
| **PFOA** | | 2.54 | 0.0781 (L) | |
| **PFNA** | U | | 0.0781 (L) | |
| **PFDA** | | 0.323 | 0.0781 (L) | 7:32 |
| **PFUnA** | U | | 0.0781 (L) | |
| **PFDoA** | | 0.193 | 0.0781 (L) | 8:07 |
| **PFTrDA** | J | 0.087 | 0.0781 (L) | 8:28 |
| **PFTeDA** | U | | 0.0781 (L) | |
| **PFBS** | U | | 0.0781 (L) | |
| **PFPeS** | J | 0.094 | 0.0781 (L) | 5:28 |
| **PFHxS** | | 0.409 | 0.0781 (L) | |
| **PFHpS** | | 0.217 | 0.0781 (L) | 7:09 |
| **PFOS** | | 58.5 | 0.0808 (S) | |
| **PFNS** | U | | 0.0781 (L) | |
| **PFDS** | | 0.566 | 0.0781 (L) | 8:14 |
| **PFDoS** | | 0.664 | 0.0781 (L) | 9:05 |
| **4:2 FTS** | U | | 0.313 (L) | |
| **6:2 FTS** | U | | 0.281 (L) | |
| **8:2 FTS** | U | | 0.313 (L) | |
| **PFOSA** | | 34.0 | 0.0781 (L) | |
| **N-MeFOSA** | | 0.451 | 0.0899 (L) | |
| **N-EtFOSA** | | 3.34 | 0.195 (L) | |
| **MeFOSAA** | | 0.213 | 0.0781 (L) | |
| **EtFOSAA** | | 6.52 | 0.0781 (L) | |
| **N-MeFOSE** | U | | 0.781 (L) | |
| **N-EtFOSE** | | 2.31 | 0.586 (L) | |
| **HFPO-DA** | U | | 0.297 (L) | |
| **ADONA** | U | | 0.313 (L) | |
| **9Cl-PF3ONS** | U | | 0.313 (L) | |
| **11Cl-PF3OUdS** | U | | 0.313 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-18_Form1A_FC0L_166S48_SJ2750245.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-SED-WET-12-18-01-042520**
**Sample Collection:**
**25-Apr-2020 09:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-18 |
| **Matrix:** | SOLID | **Sample Size:** | 5.12 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 03:12:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 33.2 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.0 | 80.1 | 1:56 |
| **13C5-PFPeA** | | 20.0 | 17.9 | 89.4 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 8.54 | 85.4 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 8.55 | 85.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.16 | 81.6 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.03 | 80.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.50 | 89.9 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.43 | 88.5 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.35 | 87.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.65 | 73.0 | 8:53 |
| **13C3-PFBS** | | 10.0 | 9.64 | 96.4 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 8.09 | 80.9 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.26 | 92.6 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 90.8 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 12.8 | 63.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.0 | 105 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.72 | 97.2 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 5.94 | 59.4 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.73 | 47.3 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 24.9 | 124 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 29.3 | 147 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 71.2 | 71.2 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 54.1 | 54.1 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 32.7 | 81.8 | 5:05 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-18_Form2_FC0L_166S48_SJ2750245.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-SED-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 10:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-19 |
| **Matrix:** | SOLID | **Sample Size:** | 5.32 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 03:25:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 13.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.301 (L) | |
| **PFPeA** | U | | 0.150 (L) | |
| **PFHxA** | U | | 0.0752 (L) | |
| **PFHpA** | U | | 0.0752 (L) | |
| **PFOA** | U | | 0.0752 (L) | |
| **PFNA** | U | | 0.0752 (L) | |
| **PFDA** | U | | 0.0752 (L) | |
| **PFUnA** | U | | 0.0752 (L) | |
| **PFDoA** | U | | 0.0752 (L) | |
| **PFTrDA** | U | | 0.0752 (L) | |
| **PFTeDA** | U | | 0.0752 (L) | |
| **PFBS** | U | | 0.0752 (L) | |
| **PFPeS** | U | | 0.0752 (L) | |
| **PFHxS** | U | | 0.0752 (L) | |
| **PFHpS** | U | | 0.0752 (L) | |
| **PFOS** | | 1.12 | 0.0752 (L) | |
| **PFNS** | U | | 0.0752 (L) | |
| **PFDS** | U | | 0.0752 (L) | |
| **PFDoS** | U | | 0.0752 (L) | |
| **4:2 FTS** | U | | 0.301 (L) | |
| **6:2 FTS** | U | | 0.271 (L) | |
| **8:2 FTS** | U | | 0.301 (L) | |
| **PFOSA** | U | | 0.0752 (L) | |
| **N-MeFOSA** | U | | 0.0864 (L) | |
| **N-EtFOSA** | U | | 0.188 (L) | |
| **MeFOSAA** | U | | 0.0752 (L) | |
| **EtFOSAA** | U | | 0.0752 (L) | |
| **N-MeFOSE** | U | | 0.752 (L) | |
| **N-EtFOSE** | U | | 0.564 (L) | |
| **HFPO-DA** | U | | 0.286 (L) | |
| **ADONA** | U | | 0.301 (L) | |
| **9Cl-PF3ONS** | U | | 0.301 (L) | |
| **11Cl-PF3OUdS** | U | | 0.301 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-19_Form1A_FC0L_166S49_SJ2750246.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-SED-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 10:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-19 |
| **Matrix:** | SOLID | **Sample Size:** | 5.32 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 03:25:49 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 13.9 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.8 | 92.0 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 97.8 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.88 | 98.8 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.35 | 93.5 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.18 | 91.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.14 | 103 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.92 | 98.4 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.73 | 94.6 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.34 | 86.7 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.62 | 96.2 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 9.18 | 91.8 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.6 | 98.2 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 18.6 | 92.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.6 | 97.8 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.88 | 98.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.69 | 86.9 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 7.80 | 78.0 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 22.6 | 113 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 23.9 | 120 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 102 | 102 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 102 | 102 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 37.5 | 93.7 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-19_Form2_FC0L_166S49_SJ2750246.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 12:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33050-20 |
| **Matrix:** | SOLID | **Sample Size:** | 2.74 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 03:38:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 72.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1.98 | 0.585 (L) | 1:57 |
| **PFPeA** | U | | 0.292 (L) | |
| **PFHxA** | J | 0.203 | 0.146 (L) | 4:57 |
| **PFHpA** | J | 0.216 | 0.146 (L) | 5:25 |
| **PFOA** | | 2.92 | 0.146 (L) | |
| **PFNA** | J | 0.192 | 0.146 (L) | |
| **PFDA** | | 0.804 | 0.146 (L) | 7:31 |
| **PFUnA** | J | 0.254 | 0.146 (L) | 7:51 |
| **PFDoA** | U | | 0.146 (L) | |
| **PFTrDA** | U | | 0.146 (L) | |
| **PFTeDA** | U | | 0.146 (L) | |
| **PFBS** | U | | 0.146 (L) | |
| **PFPeS** | U | | 0.146 (L) | |
| **PFHxS** | | 0.551 | 0.146 (L) | |
| **PFHpS** | | 0.284 | 0.146 (L) | 7:09 |
| **PFOS** | | 90.7 | 0.146 (L) | |
| **PFNS** | J | 0.207 | 0.146 (L) | 7:56 |
| **PFDS** | J | 0.273 | 0.146 (L) | 8:14 |
| **PFDoS** | U | | 0.146 (L) | |
| **4:2 FTS** | U | | 0.585 (L) | |
| **6:2 FTS** | U | | 0.526 (L) | |
| **8:2 FTS** | U | | 0.585 (L) | |
| **PFOSA** | | 1.35 | 0.146 (L) | |
| **N-MeFOSA** | U | | 0.168 (L) | |
| **N-EtFOSA** | U | | 0.365 (L) | |
| **MeFOSAA** | U | | 0.146 (L) | |
| **EtFOSAA** | | 1.04 | 0.146 (L) | |
| **N-MeFOSE** | U | | 1.46 (L) | |
| **N-EtFOSE** | U | | 1.10 (L) | |
| **HFPO-DA** | U | | 0.555 (L) | |
| **ADONA** | U | | 0.585 (L) | |
| **9Cl-PF3ONS** | U | | 0.585 (L) | |
| **11Cl-PF3OUdS** | U | | 0.585 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-20_Form1A_FC0L_166S50_SJ2750247.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 12:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33050-20 |
| **Matrix:** | SOLID | **Sample Size:** | 2.74 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 28-May-2020 **Time:** 03:38:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 72.4 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.68 | 14.2 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 15.4 | 76.9 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.57 | 95.7 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.53 | 95.3 | 5:25 |
| **13C8-PFOA** | | 10.0 | 8.88 | 88.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.10 | 82.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.84 | 96.8 | 7:31 |
| **13C7-PFUnA** | | 5.00 | 4.51 | 90.2 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.62 | 92.4 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 2.98 | 59.7 | 8:53 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:54 |
| **13C3-PFHxS** | | 10.0 | 8.96 | 89.6 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.69 | 96.9 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 26.1 | 130 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.2 | 86.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 26.4 | 132 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.5 | 105 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.53 | 65.3 | 10:06 |
| **D5-N-EtFOSA** | | 10.0 | 5.20 | 52.0 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 28.2 | 141 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 30.0 | 150 | 7:42 |
| **d7-NMe-FOSE** | | 100 | 60.1 | 60.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 59.1 | 59.1 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 35.3 | 88.2 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33050-20_Form2_FC0L_166S50_SJ2750247.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG72422-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 5.00 g |
| **Extraction Date:** | 26-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 27-May-2020 **Time:** 23:18:02 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_166 S: 30** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Concentration Units:** | ng/g | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.320 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0800 (L) | |
| **PFHpA** | U | | 0.0800 (L) | |
| **PFOA** | U | | 0.0800 (L) | |
| **PFNA** | U | | 0.0800 (L) | |
| **PFDA** | U | | 0.0800 (L) | |
| **PFUnA** | U | | 0.0800 (L) | |
| **PFDoA** | U | | 0.0800 (L) | |
| **PFTrDA** | U | | 0.0800 (L) | |
| **PFTeDA** | U | | 0.0800 (L) | |
| **PFBS** | U | | 0.0800 (L) | |
| **PFPeS** | U | | 0.0800 (L) | |
| **PFHxS** | U | | 0.0800 (L) | |
| **PFHpS** | U | | 0.0800 (L) | |
| **PFOS** | U | | 0.0800 (L) | |
| **PFNS** | U | | 0.0800 (L) | |
| **PFDS** | U | | 0.0800 (L) | |
| **PFDoS** | U | | 0.0800 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0800 (L) | |
| **N-MeFOSA** | U | | 0.0920 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0800 (L) | |
| **EtFOSAA** | U | | 0.0800 (L) | |
| **N-MeFOSE** | U | | 0.800 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72422-101_Form1A_FC0L_166S30_SJ2750227.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72422-101 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 23:18:02 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_166 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.0 | 90.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 20.1 | 100 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.13 | 91.3 | 5:26 |
| **13C8-PFOA** | | 10.0 | 9.00 | 90.0 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.54 | 90.9 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.43 | 88.7 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.66 | 93.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.69 | 73.9 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.80 | 98.0 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.03 | 90.3 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 20.4 | 102 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 85.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.5 | 92.3 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.85 | 78.5 | 8:42 |
| **D3-N-MeFOSA** | V | 10.0 | 4.68 | 46.8 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 3.94 | 39.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 21.0 | 105 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 22.3 | 112 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 72.1 | 72.1 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 75.1 | 75.1 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 36.1 | 90.1 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72422-101_Form2_FC0L_166S30_SJ2750227.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72422-102 (A) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 22:38:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_166 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 36.9 | 92.3 | 1:58 |
| **PFPeA** | | 20.0 | 18.0 | 89.9 | 4:23 |
| **PFHxA** | | 10.0 | 8.67 | 86.7 | 4:57 |
| **PFHpA** | | 10.0 | 8.71 | 87.1 | 5:26 |
| **PFOA** | | 10.0 | 8.12 | 81.2 | |
| **PFNA** | | 10.0 | 9.45 | 94.5 | |
| **PFDA** | | 10.0 | 8.70 | 87.0 | 7:32 |
| **PFUnA** | | 10.0 | 8.91 | 89.1 | 7:51 |
| **PFDoA** | | 10.0 | 9.22 | 92.2 | 8:08 |
| **PFTrDA** | | 10.0 | 8.54 | 85.4 | 8:28 |
| **PFTeDA** | | 10.0 | 9.52 | 95.2 | 8:54 |
| **PFBS** | | 10.0 | 9.49 | 94.9 | 4:55 |
| **PFPeS** | | 10.0 | 10.2 | 102 | 5:28 |
| **PFHxS** | | 10.0 | 8.89 | 88.9 | |
| **PFHpS** | | 10.0 | 8.96 | 89.6 | 7:09 |
| **PFOS** | | 10.0 | 8.24 | 82.4 | |
| **PFNS** | | 10.0 | 8.67 | 86.7 | 7:57 |
| **PFDS** | | 10.0 | 7.56 | 75.6 | 8:15 |
| **PFDoS** | | 10.0 | 8.02 | 80.2 | 9:05 |
| **4:2 FTS** | | 40.0 | 37.8 | 94.4 | 4:50 |
| **6:2 FTS** | | 36.1 | 31.9 | 88.6 | 5:53 |
| **8:2 FTS** | | 40.0 | 34.7 | 86.9 | 7:22 |
| **PFOSA** | | 10.0 | 8.88 | 88.8 | |
| **N-MeFOSA** | | 11.5 | 11.0 | 95.3 | |
| **N-EtFOSA** | | 25.0 | 21.0 | 84.1 | |
| **MeFOSAA** | | 10.0 | 8.46 | 84.6 | |
| **EtFOSAA** | | 10.0 | 9.32 | 93.2 | |
| **N-MeFOSE** | | 100 | 91.6 | 91.6 | |
| **N-EtFOSE** | | 75.0 | 70.2 | 93.6 | |
| **HFPO-DA** | | 38.0 | 35.0 | 92.1 | 5:06 |
| **ADONA** | | 40.0 | 37.5 | 93.7 | 5:40 |
| **9Cl-PF3ONS** | | 40.0 | 38.8 | 97.1 | 7:51 |
| **11Cl-PF3OUdS** | | 40.0 | 34.7 | 86.8 | 8:30 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72422-102 (A) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 22:38:54 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_166 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.5 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.7 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.66 | 96.6 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.82 | 98.2 | 5:26 |
| **13C8-PFOA** | | 10.0 | 9.06 | 90.6 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.36 | 87.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.82 | 96.3 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.61 | 92.2 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.40 | 88.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.84 | 76.7 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.13 | 91.3 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.17 | 91.7 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.95 | 99.5 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.5 | 92.6 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 17.4 | 87.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.2 | 96.0 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.01 | 70.1 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 5.34 | 53.4 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.69 | 46.9 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 20.7 | 104 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 21.5 | 107 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 61.6 | 61.6 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 62.6 | 62.6 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 37.0 | 92.4 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72422-102_Form8B_SJ2750220.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72422-103 (DUP WG72422-102) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 22:51:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_166 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 38.0 | 95.1 | 1:58 |
| **PFPeA** | | 20.0 | 18.4 | 91.9 | 4:22 |
| **PFHxA** | | 10.0 | 9.03 | 90.3 | 4:57 |
| **PFHpA** | | 10.0 | 9.31 | 93.1 | 5:26 |
| **PFOA** | | 10.0 | 8.37 | 83.7 | |
| **PFNA** | | 10.0 | 9.82 | 98.2 | |
| **PFDA** | | 10.0 | 8.97 | 89.7 | 7:32 |
| **PFUnA** | | 10.0 | 9.10 | 91.0 | 7:51 |
| **PFDoA** | | 10.0 | 9.93 | 99.3 | 8:08 |
| **PFTrDA** | | 10.0 | 8.86 | 88.6 | 8:28 |
| **PFTeDA** | | 10.0 | 10.0 | 100 | 8:54 |
| **PFBS** | | 10.0 | 9.29 | 92.9 | 4:55 |
| **PFPeS** | | 10.0 | 10.2 | 102 | 5:28 |
| **PFHxS** | | 10.0 | 9.12 | 91.2 | |
| **PFHpS** | | 10.0 | 9.39 | 93.9 | 7:09 |
| **PFOS** | | 10.0 | 8.61 | 86.1 | |
| **PFNS** | | 10.0 | 8.91 | 89.1 | 7:56 |
| **PFDS** | | 10.0 | 8.09 | 80.9 | 8:15 |
| **PFDoS** | | 10.0 | 7.54 | 75.4 | 9:05 |
| **4:2 FTS** | | 40.0 | 41.1 | 103 | 4:50 |
| **6:2 FTS** | | 36.1 | 33.1 | 91.9 | 5:53 |
| **8:2 FTS** | | 40.0 | 36.3 | 90.6 | 7:22 |
| **PFOSA** | | 10.0 | 9.23 | 92.3 | |
| **N-MeFOSA** | | 11.5 | 11.5 | 100 | |
| **N-EtFOSA** | | 25.0 | 22.9 | 91.5 | |
| **MeFOSAA** | | 10.0 | 9.23 | 92.3 | |
| **EtFOSAA** | | 10.0 | 8.79 | 87.9 | |
| **N-MeFOSE** | | 100 | 95.4 | 95.4 | |
| **N-EtFOSE** | | 75.0 | 72.7 | 97.0 | |
| **HFPO-DA** | | 38.0 | 35.7 | 94.0 | 5:06 |
| **ADONA** | | 40.0 | 38.4 | 95.9 | 5:40 |
| **9Cl-PF3ONS** | | 40.0 | 37.5 | 93.8 | 7:51 |
| **11Cl-PF3OUdS** | | 40.0 | 34.7 | 86.6 | 8:30 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: PFC_FC_LC_PFAS_WG72422-103_Form8A_SJ2750223.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72422-103 (DUP WG72422-102) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-May-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-May-2020 **Time:** 22:51:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_166 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_166 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_166 S: 24 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.4 | 91.1 | 1:57 |
| **13C5-PFPeA** | | 20.0 | 19.9 | 99.3 | 4:22 |
| **13C5-PFHxA** | | 10.0 | 9.86 | 98.6 | 4:57 |
| **13C4-PFHpA** | | 10.0 | 9.60 | 96.0 | 5:25 |
| **13C8-PFOA** | | 10.0 | 9.24 | 92.4 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.38 | 87.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.11 | 102 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.82 | 96.3 | 7:51 |
| **13C2-PFDoA** | | 5.00 | 4.49 | 89.8 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.68 | 73.6 | 8:54 |
| **13C3-PFBS** | | 10.0 | 9.81 | 98.1 | 4:55 |
| **13C3-PFHxS** | | 10.0 | 9.11 | 91.1 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.96 | 99.6 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 18.4 | 92.2 | 4:50 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.6 | 88.1 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.25 | 72.5 | 8:41 |
| **D3-N-MeFOSA** | V | 10.0 | 4.59 | 45.9 | 10:06 |
| **D5-N-EtFOSA** | V | 10.0 | 4.04 | 40.4 | 10:23 |
| **D3-MeFOSAA** | | 20.0 | 19.1 | 95.5 | 7:34 |
| **D5-EtFOSAA** | | 20.0 | 21.2 | 106 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 55.3 | 55.3 | 9:58 |
| **d9-NEt-FOSE** | | 100 | 55.9 | 55.9 | 10:16 |
| **13C3-HFPO-DA** | | 40.0 | 37.2 | 92.9 | 5:06 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: PFC_FC_LC_PFAS_WG72422-103_Form8B_SJ2750223.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72422-102 (A) LAB FLAG [1] | WG72422-102 (A) CONC. FOUND | WG72422-103 LAB FLAG [1] | WG72422-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 36.9 | | 38.0 | 37.5 | 2.97 |
| **PFPeA** | | 18.0 | | 18.4 | 18.2 | 2.19 |
| **PFHxA** | | 8.67 | | 9.03 | 8.85 | 4.05 |
| **PFHpA** | | 8.71 | | 9.31 | 9.01 | 6.64 |
| **PFOA** | | 8.12 | | 8.37 | 8.25 | 3.06 |
| **PFNA** | | 9.45 | | 9.82 | 9.63 | 3.88 |
| **PFDA** | | 8.70 | | 8.97 | 8.84 | 3.04 |
| **PFUnA** | | 8.91 | | 9.10 | 9.00 | 2.15 |
| **PFDoA** | | 9.22 | | 9.93 | 9.57 | 7.42 |
| **PFTrDA** | | 8.54 | | 8.86 | 8.70 | 3.65 |
| **PFTeDA** | | 9.52 | | 10.0 | 9.78 | 5.22 |
| **PFBS** | | 9.49 | | 9.29 | 9.39 | 2.22 |
| **PFPeS** | | 10.2 | | 10.2 | 10.2 | 0.047 |
| **PFHxS** | | 8.89 | | 9.12 | 9.00 | 2.53 |
| **PFHpS** | | 8.96 | | 9.39 | 9.17 | 4.66 |
| **PFOS** | | 8.24 | | 8.61 | 8.43 | 4.44 |
| **PFNS** | | 8.67 | | 8.91 | 8.79 | 2.72 |
| **PFDS** | | 7.56 | | 8.09 | 7.82 | 6.71 |
| **PFDoS** | | 8.02 | | 7.54 | 7.78 | 6.15 |
| **4:2 FTS** | | 37.8 | | 41.1 | 39.4 | 8.38 |
| **6:2 FTS** | | 31.9 | | 33.1 | 32.5 | 3.72 |
| **8:2 FTS** | | 34.7 | | 36.3 | 35.5 | 4.27 |
| **PFOSA** | | 8.88 | | 9.23 | 9.05 | 3.84 |
| **N-MeFOSA** | | 11.0 | | 11.5 | 11.3 | 5.19 |
| **N-EtFOSA** | | 21.0 | | 22.9 | 22.0 | 8.37 |
| **MeFOSAA** | | 8.46 | | 9.23 | 8.85 | 8.61 |
| **EtFOSAA** | | 9.32 | | 8.79 | 9.06 | 5.81 |
| **N-MeFOSE** | | 91.6 | | 95.4 | 93.5 | 4.04 |
| **N-EtFOSE** | | 70.2 | | 72.7 | 71.4 | 3.60 |
| **HFPO-DA** | | 35.0 | | 35.7 | 35.4 | 2.04 |
| **ADONA** | | 37.5 | | 38.4 | 37.9 | 2.40 |
| **9Cl-PF3ONS** | | 38.8 | | 37.5 | 38.2 | 3.44 |
| **11Cl-PF3OUdS** | | 34.7 | | 34.7 | 34.7 | 0.172 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: RPD_FC_LC_PFAS-RPD_WG72422-103_WG72422-102_.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87680.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3B.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3B_GS87680.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87680.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87680.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_166 S: 24 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 27-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 21:59:47 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:58 | 40.0 | 39.1 | 97.7 |
| **PFPeA** | | 4:23 | 20.0 | 19.5 | 97.7 |
| **PFHxA** | | 4:57 | 10.0 | 9.33 | 93.3 |
| **PFHpA** | | 5:26 | 10.0 | 9.53 | 95.3 |
| **PFOA** | | 6:13 | 10.0 | 9.18 | 91.8 |
| **PFNA** | | 7:03 | 10.0 | 9.33 | 93.3 |
| **PFDA** | | 7:32 | 10.0 | 9.76 | 97.6 |
| **PFUnA** | | 7:51 | 10.0 | 9.18 | 91.8 |
| **PFDoA** | | 8:08 | 10.0 | 10.3 | 103 |
| **PFTrDA** | | 8:29 | 10.0 | 9.53 | 95.3 |
| **PFTeDA** | | 8:54 | 10.0 | 9.83 | 98.3 |
| **PFBS** | | 4:55 | 10.0 | 9.45 | 94.5 |
| **PFPeS** | | 5:28 | 10.0 | 10.8 | 108 |
| **PFHxS** | | 6:19 | 10.0 | 10.3 | 103 |
| **PFHpS** | | 7:09 | 10.0 | 9.80 | 98.0 |
| **PFOS** | | 7:38 | 10.0 | 9.45 | 94.5 |
| **PFNS** | | 7:57 | 10.0 | 10.3 | 103 |
| **PFDS** | | 8:15 | 10.0 | 9.09 | 90.9 |
| **PFDoS** | | 9:05 | 10.0 | 9.50 | 95.0 |
| **4:2 FTS** | | 4:50 | 40.0 | 41.4 | 103 |
| **6:2 FTS** | | 5:53 | 36.0 | 35.4 | 98.4 |
| **8:2 FTS** | | 7:22 | 40.0 | 40.8 | 102 |
| **PFOSA** | | 8:42 | 10.0 | 9.64 | 96.4 |
| **N-MeFOSA** | | 10:06 | 11.5 | 11.7 | 101 |
| **N-EtFOSA** | | 10:24 | 25.0 | 22.5 | 90.1 |
| **MeFOSAA** | | 7:35 | 10.0 | 9.78 | 97.8 |
| **EtFOSAA** | | 7:43 | 10.0 | 9.56 | 95.6 |
| **N-MeFOSE** | | 9:59 | 100 | 101 | 101 |
| **N-EtFOSE** | | 10:17 | 75.0 | 75.1 | 100 |
| **HFPO-DA** | | 5:06 | 40.0 | 37.9 | 94.6 |
| **ADONA** | | 5:40 | 40.0 | 42.2 | 105 |
| **9Cl-PF3ONS** | | 7:51 | 40.0 | 43.3 | 108 |
| **11Cl-PF3OUdS** | | 8:30 | 40.0 | 38.8 | 96.9 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_166S24__Form4A_SJ2750215.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_166 S: 24 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 27-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 21:59:47 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:57 | 40.0 | 39.0 | 97.6 |
| **13C5-PFPeA** | | 4:22 | 20.0 | 21.3 | 107 |
| **13C5-PFHxA** | | 4:57 | 10.0 | 10.2 | 102 |
| **13C4-PFHpA** | | 5:26 | 10.0 | 11.0 | 110 |
| **13C8-PFOA** | | 6:12 | 10.0 | 9.93 | 99.3 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.05 | 101 |
| **13C6-PFDA** | | 7:32 | 5.00 | 5.22 | 104 |
| **13C7-PFUnA** | | 7:51 | 5.00 | 5.22 | 104 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 4.92 | 98.4 |
| **13C2-PFTeDA** | | 8:54 | 5.00 | 4.64 | 92.7 |
| **13C3-PFBS** | | 4:55 | 9.18 | 9.74 | 106 |
| **13C3-PFHxS** | | 6:19 | 10.0 | 9.72 | 97.2 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.3 | 103 |
| **13C2-4:2 FTS** | | 4:50 | 20.0 | 15.9 | 79.4 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 15.9 | 79.7 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 16.1 | 80.7 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 9.40 | 94.0 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 10.3 | 103 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 10.4 | 104 |
| **D3-MeFOSAA** | | 7:35 | 20.0 | 20.6 | 103 |
| **D5-EtFOSAA** | | 7:43 | 20.0 | 21.4 | 107 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 100 | 100 |
| **d9-NEt-FOSE** | | 10:16 | 100 | 101 | 101 |
| **13C3-HFPO-DA** | | 5:06 | 40.0 | 38.6 | 96.6 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_166S24__Form4B_SJ2750215.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_166 S: 51 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 28-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 03:52:00 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:57 | 40.0 | 39.1 | 97.7 |
| **PFPeA** | | 4:22 | 20.0 | 19.5 | 97.3 |
| **PFHxA** | | 4:57 | 10.0 | 9.47 | 94.7 |
| **PFHpA** | | 5:26 | 10.0 | 9.43 | 94.3 |
| **PFOA** | | 6:12 | 10.0 | 9.01 | 90.1 |
| **PFNA** | | 7:02 | 10.0 | 9.72 | 97.2 |
| **PFDA** | | 7:32 | 10.0 | 8.20 | 82.0 |
| **PFUnA** | | 7:51 | 10.0 | 10.0 | 100 |
| **PFDoA** | | 8:07 | 10.0 | 9.66 | 96.6 |
| **PFTrDA** | | 8:28 | 10.0 | 9.18 | 91.8 |
| **PFTeDA** | | 8:54 | 10.0 | 10.1 | 101 |
| **PFBS** | | 4:55 | 10.0 | 9.69 | 96.9 |
| **PFPeS** | | 5:28 | 10.0 | 10.4 | 104 |
| **PFHxS** | | 6:19 | 10.0 | 10.1 | 101 |
| **PFHpS** | | 7:09 | 10.0 | 9.83 | 98.3 |
| **PFOS** | | 7:38 | 10.0 | 9.59 | 95.9 |
| **PFNS** | | 7:56 | 10.0 | 10.6 | 106 |
| **PFDS** | | 8:15 | 10.0 | 10.4 | 104 |
| **PFDoS** | | 9:05 | 10.0 | 10.1 | 101 |
| **4:2 FTS** | | 4:50 | 40.0 | 42.8 | 107 |
| **6:2 FTS** | | 5:53 | 36.0 | 32.7 | 90.8 |
| **8:2 FTS** | | 7:22 | 40.0 | 37.9 | 94.8 |
| **PFOSA** | | 8:41 | 10.0 | 9.47 | 94.7 |
| **N-MeFOSA** | | 10:06 | 11.5 | 11.8 | 103 |
| **N-EtFOSA** | | 10:24 | 25.0 | 23.7 | 94.8 |
| **MeFOSAA** | | 7:34 | 10.0 | 10.7 | 107 |
| **EtFOSAA** | | 7:43 | 10.0 | 9.61 | 96.1 |
| **N-MeFOSE** | | 9:59 | 100 | 99.2 | 99.2 |
| **N-EtFOSE** | | 10:17 | 75.0 | 75.9 | 101 |
| **HFPO-DA** | | 5:06 | 40.0 | 37.9 | 94.8 |
| **ADONA** | | 5:40 | 40.0 | 42.2 | 106 |
| **9Cl-PF3ONS** | | 7:51 | 40.0 | 43.7 | 109 |
| **11Cl-PF3OUdS** | | 8:30 | 40.0 | 43.4 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_166S51__Form4A_SJ2750248.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_166 S: 51 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 28-May-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 03:52:00 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:57 | 40.0 | 39.0 | 97.6 |
| **13C5-PFPeA** | | 4:22 | 20.0 | 21.0 | 105 |
| **13C5-PFHxA** | | 4:57 | 10.0 | 10.4 | 104 |
| **13C4-PFHpA** | | 5:25 | 10.0 | 10.7 | 107 |
| **13C8-PFOA** | | 6:12 | 10.0 | 10.3 | 103 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.93 | 98.6 |
| **13C6-PFDA** | | 7:32 | 5.00 | 5.08 | 102 |
| **13C7-PFUnA** | | 7:51 | 5.00 | 5.15 | 103 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.36 | 107 |
| **13C2-PFTeDA** | | 8:54 | 5.00 | 4.81 | 96.3 |
| **13C3-PFBS** | | 4:55 | 9.18 | 10.0 | 109 |
| **13C3-PFHxS** | | 6:19 | 10.0 | 10.0 | 100 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.2 | 102 |
| **13C2-4:2 FTS** | | 4:50 | 20.0 | 15.9 | 79.5 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 17.5 | 87.3 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 17.3 | 86.3 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 10.6 | 106 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 11.2 | 112 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 10.8 | 108 |
| **D3-MeFOSAA** | | 7:34 | 20.0 | 19.0 | 95.0 |
| **D5-EtFOSAA** | | 7:43 | 20.0 | 21.6 | 108 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 115 | 115 |
| **d9-NEt-FOSE** | | 10:16 | 100 | 117 | 117 |
| **13C3-HFPO-DA** | | 5:06 | 40.0 | 38.7 | 96.7 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_166S51__Form4B_SJ2750248.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_176 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 10:50:28 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:55 | 40.0 | 39.0 | 97.5 |
| **PFPeA** | | 4:21 | 20.0 | 19.8 | 98.9 |
| **PFHxA** | | 4:56 | 10.0 | 9.58 | 95.8 |
| **PFHpA** | | 5:24 | 10.0 | 9.51 | 95.1 |
| **PFOA** | | 6:10 | 10.0 | 9.04 | 90.4 |
| **PFNA** | | 7:00 | 10.0 | 9.50 | 95.0 |
| **PFDA** | | 7:30 | 10.0 | 9.79 | 97.9 |
| **PFUnA** | | 7:50 | 10.0 | 8.57 | 85.7 |
| **PFDoA** | | 8:06 | 10.0 | 9.63 | 96.3 |
| **PFTrDA** | | 8:26 | 10.0 | 9.34 | 93.4 |
| **PFTeDA** | | 8:51 | 10.0 | 9.59 | 95.9 |
| **PFBS** | | 4:54 | 10.0 | 9.70 | 97.0 |
| **PFPeS** | | 5:26 | 10.0 | 10.3 | 103 |
| **PFHxS** | | 6:16 | 10.0 | 8.34 | 83.4 |
| **PFHpS** | | 7:07 | 10.0 | 10.0 | 100 |
| **PFOS** | | 7:36 | 10.0 | 8.88 | 88.8 |
| **PFNS** | | 7:55 | 10.0 | 9.99 | 99.9 |
| **PFDS** | | 8:12 | 10.0 | 10.1 | 101 |
| **PFDoS** | | 9:02 | 10.0 | 9.94 | 99.4 |
| **4:2 FTS** | | 4:49 | 40.0 | 43.6 | 109 |
| **6:2 FTS** | | 5:51 | 36.0 | 34.2 | 95.0 |
| **8:2 FTS** | | 7:20 | 40.0 | 38.7 | 96.8 |
| **PFOSA** | | 8:40 | 10.0 | 8.65 | 86.5 |
| **N-MeFOSA** | | 10:06 | 11.5 | 11.8 | 103 |
| **N-EtFOSA** | | 10:24 | 25.0 | 18.3 | 73.1 |
| **MeFOSAA** | | 7:33 | 10.0 | 9.53 | 95.3 |
| **EtFOSAA** | | 7:41 | 10.0 | 8.75 | 87.5 |
| **N-MeFOSE** | | 9:59 | 100 | 88.1 | 88.1 |
| **N-EtFOSE** | | 10:17 | 75.0 | 55.6 | 74.1 |
| **HFPO-DA** | | 5:05 | 40.0 | 38.1 | 95.3 |
| **ADONA** | | 5:38 | 40.0 | 40.8 | 102 |
| **9Cl-PF3ONS** | | 7:50 | 40.0 | 42.1 | 105 |
| **11Cl-PF3OUdS** | | 8:28 | 40.0 | 43.1 | 108 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_176S12__Form4A_SJ2750464.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_176 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 10:50:28 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:55 | 40.0 | 39.5 | 98.9 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.8 | 109 |
| **13C5-PFHxA** | | 4:56 | 10.0 | 10.4 | 104 |
| **13C4-PFHpA** | | 5:24 | 10.0 | 10.1 | 101 |
| **13C8-PFOA** | | 6:10 | 10.0 | 9.91 | 99.1 |
| **13C9-PFNA** | | 7:00 | 5.00 | 4.90 | 98.1 |
| **13C6-PFDA** | | 7:30 | 5.00 | 5.40 | 108 |
| **13C7-PFUnA** | | 7:49 | 5.00 | 5.53 | 111 |
| **13C2-PFDoA** | | 8:06 | 5.00 | 5.29 | 106 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.82 | 96.4 |
| **13C3-PFBS** | | 4:54 | 9.18 | 9.96 | 108 |
| **13C3-PFHxS** | | 6:16 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:36 | 10.0 | 10.0 | 100 |
| **13C2-4:2 FTS** | | 4:49 | 20.0 | 14.5 | 72.5 |
| **13C2-6:2 FTS** | | 5:51 | 20.0 | 15.3 | 76.7 |
| **13C2-8:2 FTS** | | 7:20 | 20.0 | 17.2 | 86.1 |
| **13C8-PFOSA** | | 8:40 | 10.0 | 9.52 | 95.2 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 10.3 | 103 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 10.5 | 105 |
| **D3-MeFOSAA** | | 7:33 | 20.0 | 18.0 | 90.1 |
| **D5-EtFOSAA** | | 7:41 | 20.0 | 18.5 | 92.4 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 91.8 | 91.8 |
| **d9-NEt-FOSE** | | 10:15 | 100 | 93.2 | 93.2 |
| **13C3-HFPO-DA** | | 5:05 | 40.0 | 39.6 | 98.9 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_176S12__Form4B_SJ2750464.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_176 S: 24 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 13:27:05 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:55 | 40.0 | 39.4 | 98.5 |
| **PFPeA** | | 4:21 | 20.0 | 19.6 | 98.1 |
| **PFHxA** | | 4:56 | 10.0 | 9.84 | 98.4 |
| **PFHpA** | | 5:24 | 10.0 | 9.05 | 90.5 |
| **PFOA** | | 6:10 | 10.0 | 9.35 | 93.5 |
| **PFNA** | | 7:00 | 10.0 | 9.86 | 98.6 |
| **PFDA** | | 7:30 | 10.0 | 9.47 | 94.7 |
| **PFUnA** | | 7:50 | 10.0 | 9.75 | 97.5 |
| **PFDoA** | | 8:06 | 10.0 | 10.8 | 108 |
| **PFTrDA** | | 8:26 | 10.0 | 9.01 | 90.1 |
| **PFTeDA** | | 8:51 | 10.0 | 9.98 | 99.8 |
| **PFBS** | | 4:54 | 10.0 | 9.87 | 98.7 |
| **PFPeS** | | 5:26 | 10.0 | 10.5 | 105 |
| **PFHxS** | | 6:16 | 10.0 | 8.61 | 86.1 |
| **PFHpS** | | 7:07 | 10.0 | 9.68 | 96.8 |
| **PFOS** | | 7:36 | 10.0 | 9.07 | 90.7 |
| **PFNS** | | 7:55 | 10.0 | 10.6 | 106 |
| **PFDS** | | 8:13 | 10.0 | 10.1 | 101 |
| **PFDoS** | | 9:02 | 10.0 | 9.91 | 99.1 |
| **4:2 FTS** | | 4:49 | 40.0 | 43.4 | 108 |
| **6:2 FTS** | | 5:51 | 36.0 | 33.5 | 93.1 |
| **8:2 FTS** | | 7:20 | 40.0 | 40.5 | 101 |
| **PFOSA** | | 8:41 | 10.0 | 8.64 | 86.4 |
| **N-MeFOSA** | | 10:06 | 11.5 | 12.3 | 107 |
| **N-EtFOSA** | | 10:24 | 25.0 | 18.0 | 72.0 |
| **MeFOSAA** | | 7:33 | 10.0 | 9.31 | 93.1 |
| **EtFOSAA** | | 7:42 | 10.0 | 8.67 | 86.7 |
| **N-MeFOSE** | | 9:59 | 100 | 87.7 | 87.7 |
| **N-EtFOSE** | | 10:17 | 75.0 | 56.2 | 75.0 |
| **HFPO-DA** | | 5:05 | 40.0 | 39.5 | 98.8 |
| **ADONA** | | 5:38 | 40.0 | 42.5 | 106 |
| **9Cl-PF3ONS** | | 7:50 | 40.0 | 44.8 | 112 |
| **11Cl-PF3OUdS** | | 8:28 | 40.0 | 43.6 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_176S24__Form4A_SJ2750472.html; Workgroup: WG72422; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_176 S: 24 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 04-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 13:27:05 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:55 | 40.0 | 39.3 | 98.2 |
| **13C5-PFPeA** | | 4:21 | 20.0 | 21.5 | 108 |
| **13C5-PFHxA** | | 4:56 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:24 | 10.0 | 10.3 | 103 |
| **13C8-PFOA** | | 6:09 | 10.0 | 9.80 | 98.0 |
| **13C9-PFNA** | | 7:00 | 5.00 | 4.84 | 96.9 |
| **13C6-PFDA** | | 7:30 | 5.00 | 5.33 | 107 |
| **13C7-PFUnA** | | 7:50 | 5.00 | 5.24 | 105 |
| **13C2-PFDoA** | | 8:06 | 5.00 | 5.35 | 107 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.98 | 99.7 |
| **13C3-PFBS** | | 4:54 | 9.18 | 9.56 | 104 |
| **13C3-PFHxS** | | 6:16 | 10.0 | 9.74 | 97.4 |
| **13C8-PFOS** | | 7:36 | 10.0 | 9.99 | 99.9 |
| **13C2-4:2 FTS** | | 4:49 | 20.0 | 14.4 | 72.2 |
| **13C2-6:2 FTS** | | 5:51 | 20.0 | 15.8 | 78.8 |
| **13C2-8:2 FTS** | | 7:20 | 20.0 | 16.4 | 82.2 |
| **13C8-PFOSA** | | 8:41 | 10.0 | 9.79 | 97.9 |
| **D3-N-MeFOSA** | | 10:06 | 10.0 | 10.7 | 107 |
| **D5-N-EtFOSA** | | 10:23 | 10.0 | 10.9 | 109 |
| **D3-MeFOSAA** | | 7:33 | 20.0 | 19.3 | 96.7 |
| **D5-EtFOSAA** | | 7:41 | 20.0 | 19.9 | 99.7 |
| **d7-NMe-FOSE** | | 9:58 | 100 | 99.6 | 99.6 |
| **d9-NEt-FOSE** | | 10:16 | 100 | 102 | 102 |
| **13C3-HFPO-DA** | | 5:05 | 40.0 | 38.4 | 95.9 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 07:07:48; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_176S24__Form4B_SJ2750472.html; Workgroup: WG72422; Design ID: 3770 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | | Y | | | Y | Y | | | Y | Y | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | | Y | | | Y | Y | | | Y | Y | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | | | | | Y | | | | Y | | Y | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
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| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | Y | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | Y | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | Y | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | Y | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | Y | Y | Y | Y | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | Y | | Y | | Y | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | Y | | Y | | Y | | | Y | Y | Y |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## SOLID SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG72884**

**Analysis WG72612**

## 13 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**SOLID SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**

**4095:** L33049-1 to -3
L33094-1 to -6

**Project name: P1007/60608807**
**Work order number: 3000025335**

**13 July 2020**

## NARRATIVE

This narrative describes the analysis of nine solid samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 7th and 20th of May 2020. Details of sample conditions upon receipt are provided on the Sample Receiving Record form included in the sample documentation section of this data package. The samples were stored at -20°C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were all analyzed in one analysis batch designated as WG72612; the composition of which is shown on the Correlation Table included with this data package. The QC samples consisted of a laboratory procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, and a duplicate OPR). The laboratory procedural blank and OPR samples were both prepared using solid reference matrix with Canadian Springs water.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 5 grams of each sample was accurately weighed. After addition of isotopically labelled surrogate standards, the sample was extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants were combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution was diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate was spiked with recovery standards and analyzed by LCMS/MS.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

**REPORTING CONVENTIONS**

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L330XX-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix and combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
N = large dilution of the sample extract followed by instrumental re-analysis

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
U = identifies a compound that was not detected
V = surrogate recovery is not within contract control limits
E = exceeds calibrated linear range, see dilution data
X = result reported separately
D = dilution data

For all target analytes, the results were reported with concentration units of nanograms per gram (ng/g) on a dry mass basis. Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The field and QC samples were analyzed in one analysis batch and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Target analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank and labeled compound recovery specifications were met with the following exceptions:

Percent recovery of several labeled compounds in the Lab Blank, OPR's, and several client samples were outside the contract nominal limit and were flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.

**ANALYTICAL DISCUSSION**

Sample RC3A-SED-WET-0-6-01-042520 and RC23-SED-WET-6-12-01-051420 (SGS AXYS ID: L33049-2 and L33094-6, respectively) was diluted and instrumentally re-analyzed to bring the area response of target PFOS to within the calibrated linear range of the instrument. The affected PFOS target concentration is reported from the diluted extract (indicated by suffix '**N**' on the SGS AXYS ID). The dilution factors are provided on the reports for the dilution analyses.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72884. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo

Bryan Alonzo, B. Sc., Data Validation Chemist

13-Jul-2020

Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

## 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |



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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.



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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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**SGS AXYS Analytical Services Ltd.**

## Appendix A: Naming Convention and CAS Numbers

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Anion Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Solid Samples** |
| **Data Package Identification: DPWG72884** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72612-101 |
| OPR | WG72612-102 |
| OPR DUPLICATE | WG72612-103 |
| | |
| RC12-SED-COMP-0-6-01-042420 | L33049-1 |
| RC3A-SED-WET-0-6-01-042520 | L33049-2 |
| RC12-SED-0-6-01-042520 | L33049-3 |
| EP18-SED-0-6-01-051220 | L33094-1 |
| GLI-SED-0-6-01-051220 | L33094-2 |
| RC22-SED-WET-0-6-01-051420 | L33094-3 |
| RC22-SED-WET-6-12-01-051420 | L33094-4 |
| RC23-SED-WET-0-6-01-051420 | L33094-5 |
| RC23-SED-WET-6-12-01-051420 | L33094-6 |
| | |
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| | |

SGS AXYS

1 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave S, Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tacara
Phone: 612-376-2452
FAX:
E-mail: andrew.tacara@aecom.com

**INVOICE TO:**
Company:
Address: SAME
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: F1007 / 60618753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: MLA-110, TOPA

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 | TOPA | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC17-SED-BANK-EAST-0-3-01-042320 | S | 4/23/20 | 1110 | HDPE/1 | L33050-1 | X | | | | |
| RC17-SED-BANK-EAST-3-6-01-042320 | S | 4/23/20 | 1130 | ↓ | -2 | X | | | | |
| RC17-SED-BANK-WEST-0-3-01-042320 | S | 4/23/20 | 1200 | ↓ | -3 | X | | | | |
| RC17-SED-BANK-WEST-3-6-01-042320 | S | 4/23/20 | 1215 | ↓ | -4 | X | | | | |
| RC18-SED-COMP-0-3-01-042320 | S | 4/23/20 | 1400 | ↓ | -5 | X | | | | |
| RC21-SED-COMP-0-3-01-042320 | S | 4/23/20 | 0950 | ↓ | -6 | X | | | | |
| EP21-SED-FOAM-0-6-01-042320 | S | 4/23/20 | 1240 | ↓ | ~~-45~~ 46 (DPR 13-May-20) | X | | | | |
| FC1-SED-0-3-01-042320 | S | 4/23/20 | 1445 | ↓ | -7 | X | | | | |
| RC12-SED-COMP-0-6-01-042420 | S | 4/24/20 | 1350 | HDPE/2 | L33049-1 | X | X | | | |
| RC12-SED-12-18-01-042420 | S | 4/24/20 | 1400 | HDPE/1 | -8 | X | | | | |
| RC12-SED-30-36-01-042420 | S | 4/24/20 | 1430 | ↓ | -9 | X | | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/6/20 | 1600 | Jennifer Carlsen<br>Date 07 May 2020 Time 10:35 | | 8149 0205 4430 |
| Relinquished by (Signature) | Date | Time | Received by (Signature)<br>Date Time | | |

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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2 of 2

# CHAIN OF CUSTODY

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| *REPORT TO:* | *INVOICE TO:* |
|---|---|
| Company | Company |
| Address See page 1 | Address |
| Contact | Contact |
| Phone | Phone |
| FAX | FAX |
| E-mail | E-mail |
| Project Name/Number: | Sampler's Name: Amanda Langin |
| | Signature: |

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MYA-110 | TOPIA |
|---|---|---|---|---|---|---|---|
| RC5-SED-0-4-01-042420 | S | 4/24/20 | 1000 | HDPE/1 | L33050-10 | X | X |
| RC5-SED-4-6-01-042420 | S | 4/24/20 | 1015 | | -11 | X | X |
| RC5-SED-22-26-01-042420 | S | 4/24/20 | 1030 | | -12 | X | X |
| RC5-SED-WET-3-12-01-042420 | S | 4/24/20 | 1045 | | -13 | X | X |
| RC5-SED-WET-12-18-01-042420 | S | 4/24/20 | 1100 | | -14 | X | X |
| RC6-SED-WET-0-6-01-042420 | S | 4/24/20 | 1120 | | -15 | X | X |
| RC6-SED-WET-12-18-01-042420 | S | 4/24/20 | 1140 | | -16 | X | X |
| RC3-SED-WET-0-6-01-042520 | S | 4/25/20 | 0900 | | -17 | X | X |
| RC3-SED-WET-12-18-01-042520 | S | 4/25/20 | 0915 | | -18 | X | X |
| RC3A-SED-WET-0-6-01-042520 | S | 4/25/20 | 0930 | HDPE/2 | L33049-2 | X | X |
| RCR-SED-0-6-01-042520 | S | 4/25/20 | 1015 | HDPE/1 | -3 | X | X |

| | | | |
|---|---|---|---|
| Relinquished by (Signature) | Date 5/6/20 | Time 1600 | Received by (Signature) Jennifer Carlson Date 07 May 2020 Time 10:35 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time |

Courier: Waybill No. 8149 0205 4430

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

S 4/24/20 — HDPE/1

Triplicate L33049-2

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

*** indicates a required field**

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

| | | | |
|---|---|---|---|
| | **PROJECT/CLIENT INFO** | | **LABORATORY** |
| Facility Code:* | SR0001491 | Program Code (MDH Lab Only): | Lab Name: |
| Project Name:* | Project 1007 | Project Task Code:* PRJ08141 | Address: |
| Project Manager: | Andrew Tarara | | |
| Potential Hazard? | If yes, add information to **Sampler Comments** field | | EPA Lab ID:* |

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**SAMPLE DETAILS** | **ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | End Date (mm/dd/yyyy) | End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. | ANALYSIS* | MLA-110 | | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | FF | | | | | |
| S016-061 | RC12-SED-COMP-0-6-01-042420 | Sample | 24/04/2020 | 1350 | | | | G | | | SD | | Sed-USieve | | | 1 | | | x | | L33049-1 | 7 |
| | RC3A-SED-WET-0-6-01-042520 | Sample | 25/04/2020 | 0930 | | | | G | | | SD | | Sed-USieve | | | 1 | | | x | | L33049-2 | 8 |
| S016-060 | RC12-SED-0-6-01-042520 | Sample | 25/04/2020 | 1015 | | | | G | | | SD | | Sed-USieve | | | 1 | | | x | | L33049-3 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | 10 |

| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |

**Receiving Comments:**

| **Relinquished By/Affiliation** | **Date/Time** | **Accepted By/Affiliation** | **Date/Time** |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

ORIGIN ID:SYNA (612) 376-2452
Aecom
800 LASALLE AVE STE 500
MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 06MAY20
ACTWGT: 49.75 LB
CAD: 6990384/SSF02110
DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

TO SGS AXYS ANALUTICAL SERVI
SGS AXYS ANALUTICAL SERVICES LTD
2045 W MILLS RD
SIDNEY, BC V8L5X2
CANADA, CA

(250) 655-5800

FedEx Express

(CA)

AWB

XQ YYJA
AHS
PKG:YOUR PKG

TRK# 3926 0299 3191

Form 0430

AM
INTL PRIORITY

REF:
DESC1:SAMPLES - Each
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

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COUNTRY MFG: US
CARRIAGE VALUE: 115.00 USD
CUSTOMS VALUE: 115.00 USD

SIGN: Aecom
T/C: 0 141083937
D/T: 0 141083937

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:35

RECEIVED
MAY 07 2020
Jennifer Carlson

7.7°C
5713
bagged wet ice
melting

WB27448

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 06-MAY-20

Waybill #: 392602993191
Date /Time Received: 07-MAY-20 10:35
Receipt No: WB27448

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENSDIVE Signature:

Axys Sample ID's: L33050-1 to -18, -46 L33049-1 to -3 L33047-2

Matrix Type: S

Thermometer ID: 5713

Condition of Shipping Container: Intact

Corrected Temperature: 7.6 Celcius

Temperature upon Receipt: 7.7 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*04:06 PM*

*Checked 14-May-20 DPR*

**Login Number:** L33049

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | | **Received** | **Due** | **PR** |
|---|---|---|---|---|---|
| **L33049-1** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | Permit #: P-2019-03152 | | | |
| RC12-SED-COMP-0-6-01-042420<br>24-APR-20 13:50 | S016-061<br>Project #: TIM LOCKREM 2019 | | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | 5:MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | FC111.POSTOX | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| EDataDeliv | FC111 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Data Package | FC111 DPKG | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |
| **L33049-2** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | Permit #: P-2019-03152 | | | |
| RC3A-SED-WET-0-6-01-042520<br>25-APR-20 09:30 | Project #: TIM LOCKREM 2019 | | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | 5:MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | FC111.POSTOX | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| EDataDeliv | FC111 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Data Package | FC111 DPKG | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*May. 14, 2020*

*04:06 PM*

**Login Number:** L33049

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | | | | |
|---|---|---|---|---|---|
| | | | **Received** | **Due** | **PR** |
| **L33049-3** | | | 07-MAY-20 | | |
| | Storage: WIF-4, GREY BIN IN FRONT OF 7 | Permit #: P-2019-03152 | | | |
| RC12-SED-0-6-01-042520<br>25-APR-20 10:15 | S016-060<br>Project #: TIM LOCKREM 2019 | | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | 5:MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | FC111.POSTOX | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| EDataDeliv | FC111 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Data Package | FC111 DPKG | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 250 mL plastic | USD |

4095

WB27449

L33050 -~~30~~ 29 to -45

43 - VB3-SED-comp 01 - 042720
44 - VB3-SED-comp 02 - 042720
45 - VB3-SED-comp 03- 04272

Processed by:
~~RAG~~/JTC
12-MAY-2020

WB27446

L33050 -19 to -29
-47

WB27448

L33050-1 to -18
-46

-18: RC-3-SED-WET-12-18-01-042520

L33049-1 to -3

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOPA |
|---|---|---|---|---|---|---|---|---|---|---|
| EP9-WAT-BULK-01-051220 | W | 5/12/20 | 1410 | HDPE/4 | L33098-3 | X | | | | |
| EP15-WAT-BULK-01-051220 | W | 5/12/20 | 1330 | HDPE/4 | -4 | X | | | | |
| EP18-WAT-BULK-01_051220 | W | 5/12/20 | 1145 | HDPE/8 | -20 | X | | | | X |
| EP18-SED-0-6-01-051220 | S | 5/12/20 | 1130 | HDPE/1 | -8 KTG Completed L33094-1 | X | | | | |
| GL1-WAT-BULK-01-051220 | W | 5/12/20 | 1015 | HDPE/4 | -5 | X | | | | |
| GL1-SED-0-6-01-051220 | S | 5/12/20 | 1000 | HDPE/1 | -2 | X | | | | |
| RC22-WAT-BULK-01-051420 | W | 5/14/20 | 0950 | HDPE/4 | -6 | X | | | | |
| RC22-SED-WET-0-6-01-051420 | S | 5/14/20 | 1015 | HDPE/1 | -3 | X | | | | |
| RC22-SED-WET-6-12-01-051420 | S | 5/14/20 | 1020 | HDPE/1 | -4 | X | | | | |
| RC23-WAT-BULK-01-051420 | W | 5/14/20 | 1110 | HDPE/4 | -7 | X | | | | |
| RC23-SED-WET-0-6-01-051420 | S | 5/14/20 | 1120 | HDPE/1 | -5 | X | | | | |

Relinquished by (Signature) Date 5/19/20 Time 1200

Received by (Signature) Jennifer Carlson
Date 20 May 2020 Time 10:35

Courier: FedEx
Waybill No.: No waybill - declared value = $175

Relinquished by (Signature) Date Time

Received by (Signature)
Date Time

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks

www.axysanalytical.com



SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | INVOICE TO: |
|---|---|
| Company: AECOM | Company: AECOM |
| Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402 | Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402 |
| Contact: Andrew Tarara | Contact: Andrew Tarara |
| Phone: 612-376-2452 | Phone: 612-376-2452 |
| FAX: | FAX: |
| E-mail: andrew.tarara@aecom.com | E-mail: andrew.tarara@aecom.com |

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC23-SED-WET-G12-01-051420 | S | 5/14/20 | 1130 | HDPE/1 | L33094-6 | X | | | |
| TRIP BLANK | W | 5/14/20 | - | HDPE/1 | L33098-1 | X | | | X |
| WL16-WAT-BULK-01-051820 | W | 5/18/20 | 1610 | HDPE/4 | -8 | X | | | |
| WL15-WAT-BULK-01-051820 | W | 5/18/20 | 1640 | HDPE/4 | -9 | X | | | |
| YB3-WAT-BULK-01-051820 | W | 5/18/20 | 1715 | HDPE/4 | -10 | X | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| | 5/19/20 | 1200 | Date 20 May 2020 Time 10:35 | FedEx | No waybill - declared value = $175 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time | Sample Receipt | |

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

*** indicates a required field**

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

| PROJECT/CLIENT INFO | | LABORATORY |
|---|---|---|
| Facility Code:* SR0001491 | Program Code (MDH Lab Only): | Lab Name: |
| Project Name:* Project 1007 | Project Task Code:* PRJ08141 | Address: |
| Project Manager: Andrew Tarara | | |
| Potential Hazard? | If yes, add information to **Sampler Comments** field | EPA Lab ID:* |

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

## SAMPLE DETAILS

## ANALYSIS

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | End Date (mm/dd/yyyy) | End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. / ANALYSIS* | FF / MLA-110 | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82-0109-00-455 | EP18-SED-0-6-01-051220 | Sample | 12/05/2020 | 11:30 | | | | G | | | SD | | Sed-USieve | | | 1 | | X | L33094-1 | 1 |
| 82-0113-00-201 | GL1-SED-0-6-01-051220 | Sample | 12/05/2020 | 10:00 | | | | G | | | SD | | Sed-USieve | | | 1 | | X | L33094-2 | 2 |
| PS00175 | RC22-SED-WET-0-6-01-051420 | Sample | 14/05/2020 | 10:15 | | | | G | | | SD | | Sed-USieve | | | 1 | | X | L33094-3 | 3 |
| PS00175 | RC22-SED-WET-6-12-01-051420 | Sample | 14/05/2020 | 10:20 | | | | G | | | SD | | Sed-USieve | | | 1 | | X | L33094-4 | 4 |
| PS00176 | RC23-SED-WET-0-6-01-051420 | Sample | 14/05/2020 | 11:20 | | | | G | | | SD | | Sed-USieve | | | 1 | | X | L33094-5 | 5 |
| PS00176 | RC23-SED-WET-6-12-01-051420 | Sample | 14/05/2020 | 11:30 | | | | G | | | SD | | Sed-USieve | | | 1 | | X | L33094-6 | 6 |
| | | | | | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | | | | | | 10 |

**Complete ONLY if Method is CT, CF, D-T, or D-F**

| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |

**Receiving Comments:**

| Relinquished By/Affiliation | Date/Time | Accepted By/Affiliation | Date/Time |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

ORIGIN ID:SYNA (612) 376-2452
Amanda Canning
AECOM
800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 19MAY20
TOTWGT: 121.00 LB
CAD: 6990377/SSF02110

DIMS: 24x14x14 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 REV EXP 12/20

TO **Attn: Sample and Receiving**
**SGS AXYS ANALYTICAL**
**2045 Mills Rd W**

**Sidney, BC V8L5X2**

**CANADA, CA**

(250) 655-5831

**FedEx** Express

**(CA)**

**AWB**

**E**

J201120042420uv

**XQ YYJA**
**NSR AHS**
**PKG:YOUR PKG**

TRK# **3930 0406 7424**
**1 of 2**

Form
0430

**AM**
**INTL PRIORITY**

REF:
DESC1:SAMPLES - Water and Soil Samples in plastic bottles
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 306.00 USD
CUSTOMS VALUE: 306.00 USD

SIGN: Amanda Canning
T/C: 0 141083937
D/T: R

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:35

RECEIVED
MAY 20 2020
Jennifer Carlsen

9.4°C
5712
bagged wet ice melting

WB27492

www.axysanalytical.com

4095

8:39 20MAY2020
USER 3591845 QTY 2
SVC: PO

3930 0406 7424
3930 0406 7435

CLEARED

1752520585 4510

WB27493

10:35

RECEIVED
MAY 20 2020
Jennifer Carlson

bagged wet ice
melting
9.8°C
5740

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 19-MAY-20

Waybill #: 393004067435
Date /Time Received: 20-MAY-20 10:35
Receipt No: WB27493

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENOVE Signature:

Axys Sample ID's: L33094-1 to -6 L33098-2 to -10, -20

Matrix Type: S/aq

Thermometer ID: 5740

Condition of Shipping Container: intact

Corrected Temperature: 9.5 Celcius

Temperature upon Receipt: 9.8 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:35 PM*

*Checked 08-Jun-20 DPR*

**Login Number:** L33094

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33094-1** | | | 20-MAY-20 | | |
| | | Storage: WIF4, old ref shelf C | | | |
| EP18-SED-0-6-01-051220<br>12-MAY-20 11:30 | | 82-0109-00-455<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 250 mL plastic | USD |
| **L33094-2** | | | 20-MAY-20 | | |
| | | Storage: WIF4, old ref shelf C | | | |
| GLI-SED-0-6-01-051220<br>12-MAY-20 10:00 | | 82-0113-00-201<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 250 mL plastic | USD |
| **L33094-3** | | | 20-MAY-20 | | |
| | | Storage: WIF4, old ref shelf C | | | |
| RC22-SED-WET-0-6-01-051420<br>14-MAY-20 10:15 | | PS00175<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 250 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:35 PM*

**Login Number:** L33094

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33094-4** | | | 20-MAY-20 | | |
| | | Storage: WIF4, old ref shelf C | | | |
| RC22-SED-WET-6-12-01-051420<br>14-MAY-20 10:20 | | PS00175<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 250 mL plastic | USD |
| **L33094-5** | | | 20-MAY-20 | | |
| | | Storage: WIF4, old ref shelf C | | | |
| RC23-SED-WET-0-6-01-051420<br>14-MAY-20 11:20 | | PS00176<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 250 mL plastic | USD |
| **L33094-6** | | | 20-MAY-20 | | |
| | | Storage: WIF4, old ref shelf C | | | |
| RC23-SED-WET-6-12-01-051420<br>14-MAY-20 11:30 | | PS00176<br>Project #: TIM LOCKREM 2019 | | | |
| Solid | 2:MOISTURE | | | : | USD |
| Solid | 5:FC MOISTURE | | | : | USD |
| Solid | FC110 | | | : | USD |
| Solid | HOMOGENIZATION | | | : | USD |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 250 mL plastic | USD |

4095

WB27492

L33098-1, -11 to -19

WB27493

L33098-2 to -10, -20

L33094-1 to -6

Processed by:
RTG/JTC

20 MAY 2020

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-COMP-0-6-01-042420**
**Sample Collection:**
**24-Apr-2020 13:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33049-1 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:04:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 14.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 0.895 | 0.318 (L) | 1:52 |
| **PFPeA** | J | 0.187 | 0.159 (L) | 4:25 |
| **PFHxA** | | 0.163 | 0.0796 (L) | 5:01 |
| **PFHpA** | | 0.164 | 0.0796 (L) | 5:28 |
| **PFOA** | | 1.98 | 0.0796 (L) | |
| **PFNA** | U | | 0.0796 (L) | |
| **PFDA** | | 0.275 | 0.0796 (L) | 7:33 |
| **PFUnA** | U | | 0.0796 (L) | |
| **PFDoA** | U | | 0.0796 (L) | |
| **PFTrDA** | U | | 0.0796 (L) | |
| **PFTeDA** | U | | 0.0796 (L) | |
| **PFBS** | U | | 0.0796 (L) | |
| **PFPeS** | U | | 0.0796 (L) | |
| **PFHxS** | J | 0.123 | 0.0796 (L) | |
| **PFHpS** | J | 0.081 | 0.0796 (L) | 7:09 |
| **PFOS** | | 25.8 | 0.0796 (L) | |
| **PFNS** | U | | 0.0796 (L) | |
| **PFDS** | U | | 0.0796 (L) | |
| **PFDoS** | U | | 0.0796 (L) | |
| **4:2 FTS** | U | | 0.318 (L) | |
| **6:2 FTS** | U | | 0.286 (L) | |
| **8:2 FTS** | U | | 0.318 (L) | |
| **PFOSA** | | 0.948 | 0.0796 (L) | |
| **N-MeFOSA** | U | | 0.0915 (L) | |
| **N-EtFOSA** | U | | 0.199 (L) | |
| **MeFOSAA** | U | | 0.0796 (L) | |
| **EtFOSAA** | | 0.261 | 0.0796 (L) | |
| **N-MeFOSE** | U | | 0.796 (L) | |
| **N-EtFOSE** | U | | 0.597 (L) | |
| **HFPO-DA** | U | | 0.302 (L) | |
| **ADONA** | U | | 0.318 (L) | |
| **9Cl-PF3ONS** | U | | 0.318 (L) | |
| **11Cl-PF3OUdS** | U | | 0.318 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-1_Form1A_FC0L_193S47_SJ2755256.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-COMP-0-6-01-042420**
**Sample Collection:**
**24-Apr-2020 13:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33049-1 |
| **Matrix:** | SOLID | **Sample Size:** | 5.03 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:04:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 47** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 14.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.0 | 92.4 | 1:52 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 102 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.80 | 98.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.42 | 94.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.97 | 89.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.66 | 93.2 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.31 | 106 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.18 | 104 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.86 | 97.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.19 | 83.8 | 8:52 |
| **13C3-PFBS** | | 10.0 | 9.65 | 96.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.47 | 94.7 | 6:19 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 21.8 | 109 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.8 | 89.1 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 20.1 | 100 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.73 | 97.3 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.70 | 87.0 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 8.11 | 81.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.0 | 105 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 21.0 | 105 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 103 | 103 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 103 | 103 | 10:20 |
| **13C3-HFPO-DA** | | 40.0 | 37.2 | 93.0 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-1_Form2_FC0L_193S47_SJ2755256.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3A-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 09:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33049-2 |
| **Matrix:** | SOLID | **Sample Size:** | 4.84 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:17:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 52.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 10.6 | 0.330 (L) | 1:52 |
| **PFPeA** | | 0.507 | 0.165 (L) | 4:25 |
| **PFHxA** | | 1.65 | 0.0826 (L) | 5:01 |
| **PFHpA** | | 1.09 | 0.0826 (L) | 5:28 |
| **PFOA** | | 24.2 | 0.0826 (L) | |
| **PFNA** | | 0.280 | 0.0826 (L) | |
| **PFDA** | | 0.813 | 0.0826 (L) | 7:33 |
| **PFUnA** | | 0.249 | 0.0826 (L) | 7:52 |
| **PFDoA** | | 0.589 | 0.0826 (L) | 8:08 |
| **PFTrDA** | J | 0.156 | 0.0826 (L) | 8:27 |
| **PFTeDA** | J | 0.156 | 0.0826 (L) | 8:51 |
| **PFBS** | | 0.356 | 0.0826 (L) | 4:58 |
| **PFPeS** | | 0.585 | 0.0826 (L) | 5:29 |
| **PFHxS** | | 2.76 | 0.0826 (L) | |
| **PFHpS** | | 2.64 | 0.0826 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | | 0.773 | 0.0826 (L) | 7:58 |
| **PFDS** | | 1.78 | 0.0826 (L) | 8:15 |
| **PFDoS** | | 0.749 | 0.0826 (L) | 9:02 |
| **4:2 FTS** | U | | 0.330 (L) | |
| **6:2 FTS** | U | | 0.297 (L) | |
| **8:2 FTS** | U | | 0.330 (L) | |
| **PFOSA** | | 50.2 | 0.0826 (L) | |
| **N-MeFOSA** | | 2.97 | 0.0950 (L) | |
| **N-EtFOSA** | | 2.83 | 0.207 (L) | |
| **MeFOSAA** | | 0.490 | 0.0826 (L) | |
| **EtFOSAA** | | 16.2 | 0.0826 (L) | |
| **N-MeFOSE** | U | | 0.826 (L) | |
| **N-EtFOSE** | J | 0.854 | 0.620 (L) | |
| **HFPO-DA** | U | | 0.314 (L) | |
| **ADONA** | U | | 0.330 (L) | |
| **9Cl-PF3ONS** | U | | 0.330 (L) | |
| **11Cl-PF3OUdS** | U | | 0.330 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-2_Form1A_FC0L_193S48_SJ2755257.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3A-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 09:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33049-2 |
| **Matrix:** | SOLID | **Sample Size:** | 4.84 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:17:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 52.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.1 | 82.7 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 92.8 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.74 | 87.4 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.55 | 85.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.23 | 82.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.25 | 84.9 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.62 | 92.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.55 | 91.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.12 | 82.3 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.25 | 65.0 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.04 | 90.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.40 | 84.0 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.03 | 90.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.7 | 118 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 14.4 | 71.9 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 22.3 | 111 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 10.6 | 106 | 8:43 |
| **D3-N-MeFOSA** | V | 10.0 | 3.38 | 33.8 | 10:10 |
| **D5-N-EtFOSA** | V | 10.0 | 2.70 | 27.0 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 29.1 | 146 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 32.2 | 161 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 50.3 | 50.3 | 10:02 |
| **d9-NEt-FOSE** | V | 100 | 43.2 | 43.2 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.4 | 86.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-2_Form2_FC0L_193S48_SJ2755257.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3A-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 09:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33049-2 N |
| **Matrix:** | SOLID | **Sample Size:** | 4.84 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Jun-2020 **Time:** 12:25:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_197 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | 3 | **Cal. Ver. Data Filename:** | FC0L_197 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 52.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 179 | 0.248 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-2_Form1A_FC0L_197S16_SJ2755376.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3A-SED-WET-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 09:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33049-2 N |
| **Matrix:** | SOLID | **Sample Size:** | 4.84 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Jun-2020 **Time:** 12:25:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_197 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | 3 | **Cal. Ver. Data Filename:** | FC0L_197 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 52.1 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.00 | 90.0 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-2_Form2_FC0L_197S16_SJ2755376.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 10:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33049-3 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:30:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 4.13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.360 | 0.320 (L) | 1:52 |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | J | 0.102 | 0.0799 (L) | 5:01 |
| **PFHpA** | J | 0.090 | 0.0799 (L) | 5:28 |
| **PFOA** | | 1.17 | 0.0799 (L) | |
| **PFNA** | U | | 0.0799 (L) | |
| **PFDA** | | 0.186 | 0.0799 (L) | 7:33 |
| **PFUnA** | U | | 0.0799 (L) | |
| **PFDoA** | U | | 0.0799 (L) | |
| **PFTrDA** | U | | 0.0799 (L) | |
| **PFTeDA** | U | | 0.0799 (L) | |
| **PFBS** | U | | 0.0799 (L) | |
| **PFPeS** | U | | 0.0799 (L) | |
| **PFHxS** | U | | 0.0799 (L) | |
| **PFHpS** | U | | 0.0799 (L) | |
| **PFOS** | | 12.0 | 0.0799 (L) | |
| **PFNS** | U | | 0.0799 (L) | |
| **PFDS** | U | | 0.0799 (L) | |
| **PFDoS** | U | | 0.0799 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | J | 0.199 | 0.0799 (L) | |
| **N-MeFOSA** | U | | 0.0919 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0799 (L) | |
| **EtFOSAA** | | 0.223 | 0.0799 (L) | |
| **N-MeFOSE** | U | | 0.799 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-3_Form1A_FC0L_193S49_SJ2755258.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-SED-0-6-01-042520**
**Sample Collection:**
**25-Apr-2020 10:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33049-3 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g (dry) |
| **Sample Receipt Date:** | 07-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:30:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 4.13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.1 | 87.8 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.54 | 95.4 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.03 | 90.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.47 | 84.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.57 | 91.4 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.53 | 90.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.60 | 92.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.38 | 87.6 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.81 | 98.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.09 | 90.9 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.3 | 107 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 18.7 | 93.3 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 21.3 | 107 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.93 | 99.3 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.01 | 90.1 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 8.46 | 84.6 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.0 | 105 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 22.6 | 113 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 109 | 109 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 109 | 109 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 32.8 | 81.9 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33049-3_Form2_FC0L_193S49_SJ2755258.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP18-SED-0-6-01-051220**
**Sample Collection:**
**12-May-2020 11:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33094-1 |
| **Matrix:** | SOLID | **Sample Size:** | 2.50 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:43:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 75.0 |

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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 1.13 | 0.640 (L) | 1:51 |
| **PFPeA** | U | | 0.320 (L) | |
| **PFHxA** | J | 0.209 | 0.160 (L) | 5:01 |
| **PFHpA** | J | 0.265 | 0.160 (L) | 5:28 |
| **PFOA** | | 3.76 | 0.160 (L) | |
| **PFNA** | U | | 0.160 (L) | |
| **PFDA** | | 0.615 | 0.160 (L) | 7:33 |
| **PFUnA** | U | | 0.160 (L) | |
| **PFDoA** | U | | 0.160 (L) | |
| **PFTrDA** | U | | 0.160 (L) | |
| **PFTeDA** | U | | 0.160 (L) | |
| **PFBS** | J | 0.234 | 0.160 (L) | 4:58 |
| **PFPeS** | J | 0.284 | 0.160 (L) | 5:30 |
| **PFHxS** | | 1.06 | 0.160 (L) | |
| **PFHpS** | | 0.523 | 0.160 (L) | 7:09 |
| **PFOS** | | 91.2 | 0.160 (L) | |
| **PFNS** | U | | 0.160 (L) | |
| **PFDS** | U | | 0.160 (L) | |
| **PFDoS** | U | | 0.160 (L) | |
| **4:2 FTS** | U | | 0.640 (L) | |
| **6:2 FTS** | J | 1.62 | 0.576 (L) | 5:54 |
| **8:2 FTS** | U | | 0.640 (L) | |
| **PFOSA** | | 1.90 | 0.160 (L) | |
| **N-MeFOSA** | J | 0.187 | 0.184 (L) | |
| **N-EtFOSA** | U | | 0.400 (L) | |
| **MeFOSAA** | U | | 0.160 (L) | |
| **EtFOSAA** | | 2.19 | 0.160 (L) | |
| **N-MeFOSE** | U | | 1.60 (L) | |
| **N-EtFOSE** | U | | 1.20 (L) | |
| **HFPO-DA** | U | | 0.608 (L) | |
| **ADONA** | U | | 0.640 (L) | |
| **9Cl-PF3ONS** | U | | 0.640 (L) | |
| **11Cl-PF3OUdS** | U | | 0.640 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-1_Form1A_FC0L_193S50_SJ2755259.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP18-SED-0-6-01-051220**
**Sample Collection:**
**12-May-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-1 |
| **Matrix:** | SOLID | **Sample Size:** | 2.50 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:43:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 75.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 9.09 | 22.7 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 17.7 | 88.5 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.51 | 95.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.16 | 91.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.87 | 88.7 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.9 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.88 | 97.7 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.58 | 91.7 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.74 | 94.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.12 | 62.4 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.73 | 97.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.97 | 89.7 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.64 | 96.4 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 25.4 | 127 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.0 | 79.8 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 25.6 | 128 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 5.29 | 52.9 | 10:10 |
| **D5-N-EtFOSA** | V | 10.0 | 4.29 | 42.9 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 25.4 | 127 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 28.8 | 144 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 61.4 | 61.4 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 52.9 | 52.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 32.8 | 82.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-1_Form2_FC0L_193S50_SJ2755259.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**GLI-SED-0-6-01-051220**
**Sample Collection:**
**12-May-2020 10:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-2 |
| **Matrix:** | SOLID | **Sample Size:** | 4.99 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:56:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 31.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.321 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0802 (L) | |
| **PFHpA** | U | | 0.0802 (L) | |
| **PFOA** | U | | 0.0802 (L) | |
| **PFNA** | U | | 0.0802 (L) | |
| **PFDA** | U | | 0.0802 (L) | |
| **PFUnA** | U | | 0.0802 (L) | |
| **PFDoA** | U | | 0.0802 (L) | |
| **PFTrDA** | U | | 0.0802 (L) | |
| **PFTeDA** | U | | 0.0802 (L) | |
| **PFBS** | U | | 0.0802 (L) | |
| **PFPeS** | U | | 0.0802 (L) | |
| **PFHxS** | U | | 0.0802 (L) | |
| **PFHpS** | U | | 0.0802 (L) | |
| **PFOS** | J | 0.121 | 0.0802 (L) | |
| **PFNS** | U | | 0.0802 (L) | |
| **PFDS** | U | | 0.0802 (L) | |
| **PFDoS** | U | | 0.0802 (L) | |
| **4:2 FTS** | U | | 0.321 (L) | |
| **6:2 FTS** | U | | 0.289 (L) | |
| **8:2 FTS** | U | | 0.321 (L) | |
| **PFOSA** | U | | 0.0802 (L) | |
| **N-MeFOSA** | U | | 0.0922 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0802 (L) | |
| **EtFOSAA** | U | | 0.0802 (L) | |
| **N-MeFOSE** | U | | 0.802 (L) | |
| **N-EtFOSE** | U | | 0.601 (L) | |
| **HFPO-DA** | U | | 0.305 (L) | |
| **ADONA** | U | | 0.321 (L) | |
| **9Cl-PF3ONS** | U | | 0.321 (L) | |
| **11Cl-PF3OUdS** | U | | 0.321 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-2_Form1A_FC0L_193S51_SJ2755260.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**GLI-SED-0-6-01-051220**
**Sample Collection:**
**12-May-2020 10:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-2 |
| **Matrix:** | SOLID | **Sample Size:** | 4.99 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 01:56:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 31.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 20.3 | 50.7 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.6 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.63 | 96.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.32 | 93.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.38 | 83.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.24 | 84.8 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.05 | 101 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.08 | 102 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.80 | 96.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.19 | 83.8 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.2 | 102 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.22 | 92.2 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.8 | 108 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 24.3 | 121 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.4 | 81.8 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 21.1 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 10.7 | 107 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.32 | 93.2 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 8.44 | 84.4 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 24.4 | 122 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 26.5 | 133 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 108 | 108 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 101 | 101 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.0 | 95.0 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-2_Form2_FC0L_193S51_SJ2755260.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-SED-WET-0-6-01-051420**
**Sample Collection:**
**14-May-2020 10:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33094-3 |
| **Matrix:** | SOLID | **Sample Size:** | 4.80 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:09:40 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 49.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1.28 | 0.334 (L) | 1:51 |
| **PFPeA** | J | 0.197 | 0.167 (L) | 4:25 |
| **PFHxA** | | 0.427 | 0.0834 (L) | 5:01 |
| **PFHpA** | | 0.484 | 0.0834 (L) | 5:28 |
| **PFOA** | | 5.96 | 0.0834 (L) | |
| **PFNA** | J | 0.140 | 0.0834 (L) | |
| **PFDA** | | 0.810 | 0.0834 (L) | 7:33 |
| **PFUnA** | | 0.299 | 0.0834 (L) | 7:52 |
| **PFDoA** | | 0.385 | 0.0834 (L) | 8:08 |
| **PFTrDA** | U | | 0.0834 (L) | |
| **PFTeDA** | U | | 0.0834 (L) | |
| **PFBS** | J | 0.114 | 0.0834 (L) | 4:58 |
| **PFPeS** | J | 0.156 | 0.0834 (L) | 5:29 |
| **PFHxS** | | 0.608 | 0.0834 (L) | |
| **PFHpS** | | 0.485 | 0.0834 (L) | 7:09 |
| **PFOS** | | 129 | 0.0889 (S) | |
| **PFNS** | | 0.292 | 0.0834 (L) | 7:58 |
| **PFDS** | | 0.966 | 0.0834 (L) | 8:14 |
| **PFDoS** | J | 0.115 | 0.0834 (L) | 9:02 |
| **4:2 FTS** | U | | 0.334 (L) | |
| **6:2 FTS** | U | | 0.300 (L) | |
| **8:2 FTS** | U | | 0.334 (L) | |
| **PFOSA** | | 4.38 | 0.0834 (L) | |
| **N-MeFOSA** | | 0.330 | 0.0959 (L) | |
| **N-EtFOSA** | U | | 0.208 (L) | |
| **MeFOSAA** | J | 0.091 | 0.0834 (L) | |
| **EtFOSAA** | | 3.54 | 0.0834 (L) | |
| **N-MeFOSE** | U | | 0.834 (L) | |
| **N-EtFOSE** | U | | 0.625 (L) | |
| **HFPO-DA** | U | | 0.317 (L) | |
| **ADONA** | U | | 0.334 (L) | |
| **9Cl-PF3ONS** | U | | 0.334 (L) | |
| **11Cl-PF3OUdS** | U | | 0.334 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-3_Form1A_FC0L_193S52_SJ2755261.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-SED-WET-0-6-01-051420**
**Sample Collection:**
**14-May-2020 10:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-3 |
| **Matrix:** | SOLID | **Sample Size:** | 4.80 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:09:40 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 49.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 26.8 | 67.1 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 16.5 | 82.5 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.28 | 82.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.20 | 82.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.85 | 78.5 | 6:12 |
| **13C9-PFNA** | | 5.00 | 3.79 | 75.8 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.16 | 83.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.05 | 81.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.96 | 79.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 2.78 | 55.6 | 8:51 |
| **13C3-PFBS** | | 10.0 | 8.27 | 82.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 7.69 | 76.9 | 6:18 |
| **13C8-PFOS** | | 10.0 | 8.53 | 85.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.7 | 108 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 12.8 | 64.2 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 18.4 | 92.2 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.87 | 98.7 | 8:43 |
| **D3-N-MeFOSA** | V | 10.0 | 4.05 | 40.5 | 10:10 |
| **D5-N-EtFOSA** | V | 10.0 | 2.96 | 29.6 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 24.4 | 122 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 25.7 | 128 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 55.8 | 55.8 | 10:02 |
| **d9-NEt-FOSE** | V | 100 | 49.9 | 49.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 31.1 | 77.8 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-3_Form2_FC0L_193S52_SJ2755261.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-SED-WET-6-12-01-051420**
**Sample Collection:**
**14-May-2020 10:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-4 |
| **Matrix:** | SOLID | **Sample Size:** | 4.97 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:22:45 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 41.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1.02 | 0.322 (L) | 1:52 |
| **PFPeA** | U | | 0.161 (L) | |
| **PFHxA** | | 0.343 | 0.0805 (L) | 5:01 |
| **PFHpA** | | 0.364 | 0.0805 (L) | 5:28 |
| **PFOA** | | 4.50 | 0.0805 (L) | |
| **PFNA** | J | 0.106 | 0.0805 (L) | |
| **PFDA** | | 0.704 | 0.0805 (L) | 7:33 |
| **PFUnA** | | 0.191 | 0.0805 (L) | 7:52 |
| **PFDoA** | | 0.238 | 0.0805 (L) | 8:08 |
| **PFTrDA** | U | | 0.0805 (L) | |
| **PFTeDA** | U | | 0.0805 (L) | |
| **PFBS** | U | | 0.0805 (L) | |
| **PFPeS** | J | 0.096 | 0.0805 (L) | 5:29 |
| **PFHxS** | | 0.398 | 0.0805 (L) | |
| **PFHpS** | | 0.327 | 0.0805 (L) | 7:09 |
| **PFOS** | | 81.4 | 0.0805 (L) | |
| **PFNS** | | 0.248 | 0.0805 (L) | 7:58 |
| **PFDS** | | 0.647 | 0.0805 (L) | 8:14 |
| **PFDoS** | J | 0.107 | 0.0805 (L) | 9:01 |
| **4:2 FTS** | U | | 0.322 (L) | |
| **6:2 FTS** | | 2.40 | 0.290 (L) | 5:54 |
| **8:2 FTS** | U | | 0.322 (L) | |
| **PFOSA** | | 3.50 | 0.0805 (L) | |
| **N-MeFOSA** | | 0.320 | 0.0925 (L) | |
| **N-EtFOSA** | U | | 0.201 (L) | |
| **MeFOSAA** | J | 0.102 | 0.0805 (L) | |
| **EtFOSAA** | | 1.10 | 0.0805 (L) | |
| **N-MeFOSE** | U | | 0.805 (L) | |
| **N-EtFOSE** | U | | 0.603 (L) | |
| **HFPO-DA** | U | | 0.306 (L) | |
| **ADONA** | U | | 0.322 (L) | |
| **9Cl-PF3ONS** | U | | 0.322 (L) | |
| **11Cl-PF3OUdS** | U | | 0.322 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-4_Form1A_FC0L_193S53_SJ2755262.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-SED-WET-6-12-01-051420**
**Sample Collection:**
**14-May-2020 10:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-4 |
| **Matrix:** | SOLID | **Sample Size:** | 4.97 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:22:45 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 41.0 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.6 | 84.1 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.7 | 93.7 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.00 | 90.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.62 | 86.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.22 | 82.2 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.23 | 84.6 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.55 | 90.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.85 | 97.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.71 | 94.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.72 | 74.5 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.26 | 92.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.54 | 85.4 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.33 | 93.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.1 | 111 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.0 | 75.1 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 17.6 | 88.1 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 10.9 | 109 | 8:43 |
| **D3-N-MeFOSA** | | 10.0 | 6.87 | 68.7 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 5.44 | 54.4 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 22.4 | 112 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 25.8 | 129 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 95.2 | 95.2 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 89.7 | 89.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.6 | 86.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-4_Form2_FC0L_193S53_SJ2755262.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC23-SED-WET-0-6-01-051420**
**Sample Collection:**
**14-May-2020 11:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-5 |
| **Matrix:** | SOLID | **Sample Size:** | 4.69 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:35:42 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 53.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 0.922 | 0.341 (L) | 1:51 |
| **PFPeA** | U | | 0.171 (L) | |
| **PFHxA** | | 0.241 | 0.0854 (L) | 5:01 |
| **PFHpA** | | 0.252 | 0.0854 (L) | 5:28 |
| **PFOA** | | 3.71 | 0.0854 (L) | |
| **PFNA** | J | 0.106 | 0.0854 (L) | |
| **PFDA** | | 0.912 | 0.0854 (L) | 7:33 |
| **PFUnA** | J | 0.171 | 0.0854 (L) | 7:52 |
| **PFDoA** | | 0.184 | 0.0854 (L) | 8:08 |
| **PFTrDA** | U | | 0.0854 (L) | |
| **PFTeDA** | U | | 0.0854 (L) | |
| **PFBS** | J | 0.109 | 0.0854 (L) | 4:58 |
| **PFPeS** | J | 0.138 | 0.0854 (L) | 5:29 |
| **PFHxS** | | 0.565 | 0.0854 (L) | |
| **PFHpS** | | 0.414 | 0.0854 (L) | 7:09 |
| **PFOS** | | 124 | 0.0854 (L) | |
| **PFNS** | | 0.322 | 0.0854 (L) | 7:58 |
| **PFDS** | | 0.707 | 0.0854 (L) | 8:14 |
| **PFDoS** | | 0.185 | 0.0854 (L) | 9:02 |
| **4:2 FTS** | U | | 0.341 (L) | |
| **6:2 FTS** | U | | 0.307 (L) | |
| **8:2 FTS** | U | | 0.341 (L) | |
| **PFOSA** | | 4.27 | 0.0854 (L) | |
| **N-MeFOSA** | | 0.268 | 0.0982 (L) | |
| **N-EtFOSA** | U | | 0.213 (L) | |
| **MeFOSAA** | J | 0.111 | 0.0854 (L) | |
| **EtFOSAA** | | 2.50 | 0.0854 (L) | |
| **N-MeFOSE** | U | | 0.854 (L) | |
| **N-EtFOSE** | U | | 0.640 (L) | |
| **HFPO-DA** | U | | 0.324 (L) | |
| **ADONA** | U | | 0.341 (L) | |
| **9Cl-PF3ONS** | U | | 0.341 (L) | |
| **11Cl-PF3OUdS** | U | | 0.341 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-5_Form1A_FC0L_193S54_SJ2755263.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC23-SED-WET-0-6-01-051420**
**Sample Collection:**
**14-May-2020 11:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-5 |
| **Matrix:** | SOLID | **Sample Size:** | 4.69 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:35:42 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 53.8 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.5 | 86.3 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.76 | 97.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.14 | 91.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.90 | 89.0 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.35 | 87.1 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.24 | 105 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.23 | 105 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.95 | 99.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.86 | 77.2 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.86 | 98.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.06 | 90.6 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.99 | 99.9 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.1 | 116 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 14.1 | 70.4 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 18.9 | 94.4 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 11.5 | 115 | 8:43 |
| **D3-N-MeFOSA** | V | 10.0 | 4.27 | 42.7 | 10:10 |
| **D5-N-EtFOSA** | V | 10.0 | 3.45 | 34.5 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 27.4 | 137 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 29.5 | 147 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 66.4 | 66.4 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 55.7 | 55.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 39.4 | 98.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-5_Form2_FC0L_193S54_SJ2755263.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC23-SED-WET-6-12-01-051420**
**Sample Collection:**
**14-May-2020 11:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.13 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:48:47 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 33.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 0.550 | 0.312 (L) | 1:51 |
| **PFPeA** | U | | 0.156 (L) | |
| **PFHxA** | | 0.194 | 0.0779 (L) | 5:01 |
| **PFHpA** | | 0.168 | 0.0779 (L) | 5:28 |
| **PFOA** | | 3.27 | 0.0779 (L) | |
| **PFNA** | J | 0.107 | 0.0779 (L) | |
| **PFDA** | | 1.27 | 0.0779 (L) | 7:33 |
| **PFUnA** | U | | 0.0779 (L) | |
| **PFDoA** | U | | 0.0779 (L) | |
| **PFTrDA** | U | | 0.0779 (L) | |
| **PFTeDA** | U | | 0.0779 (L) | |
| **PFBS** | U | | 0.0779 (L) | |
| **PFPeS** | J | 0.096 | 0.0779 (L) | 5:29 |
| **PFHxS** | | 0.468 | 0.0779 (L) | |
| **PFHpS** | | 0.771 | 0.0779 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | | 0.196 | 0.0779 (L) | 7:58 |
| **PFDS** | | 0.172 | 0.0779 (L) | 8:15 |
| **PFDoS** | U | | 0.0779 (L) | |
| **4:2 FTS** | U | | 0.312 (L) | |
| **6:2 FTS** | U | | 0.280 (L) | |
| **8:2 FTS** | U | | 0.312 (L) | |
| **PFOSA** | | 5.18 | 0.0779 (L) | |
| **N-MeFOSA** | | 0.381 | 0.0896 (L) | |
| **N-EtFOSA** | U | | 0.195 (L) | |
| **MeFOSAA** | J | 0.155 | 0.0779 (L) | |
| **EtFOSAA** | | 1.28 | 0.0779 (L) | |
| **N-MeFOSE** | U | | 0.779 (L) | |
| **N-EtFOSE** | U | | 0.584 (L) | |
| **HFPO-DA** | U | | 0.296 (L) | |
| **ADONA** | U | | 0.312 (L) | |
| **9Cl-PF3ONS** | U | | 0.312 (L) | |
| **11Cl-PF3OUdS** | U | | 0.312 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-6_Form1A_FC0L_193S55_SJ2755264.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC23-SED-WET-6-12-01-051420**
**Sample Collection:**
**14-May-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-6 |
| **Matrix:** | SOLID | **Sample Size:** | 5.13 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 02:48:47 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 33.7 |

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| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.5 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 102 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.82 | 98.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.47 | 94.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.41 | 94.1 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.58 | 91.6 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.17 | 103 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.19 | 104 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 5.05 | 101 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.93 | 78.5 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.97 | 99.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.73 | 97.3 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.3 | 103 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.7 | 114 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.9 | 79.7 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 20.0 | 100 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 13.7 | 137 | 8:43 |
| **D3-N-MeFOSA** | | 10.0 | 9.42 | 94.2 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 7.71 | 77.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 28.2 | 141 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 34.5 | 172 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 125 | 125 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 113 | 113 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 39.4 | 98.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-6_Form2_FC0L_193S55_SJ2755264.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC23-SED-WET-6-12-01-051420**
**Sample Collection:**
**14-May-2020 11:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33094-6 N |
| **Matrix:** | SOLID | **Sample Size:** | 5.13 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Jun-2020 **Time:** 12:38:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_197 S: 17** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | 3 | **Cal. Ver. Data Filename:** | FC0L_197 S: 12 |
| **Concentration Units:** | ng/g (dry weight basis) | **% Moisture:** | 33.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 185 | 0.234 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-6_Form1A_FC0L_197S17_SJ2755377.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC23-SED-WET-6-12-01-051420**
**Sample Collection:**
**14-May-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33094-6 N |
| **Matrix:** | SOLID | **Sample Size:** | 5.13 g (dry) |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 19-Jun-2020 **Time:** 12:38:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_197 S: 17** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | 3 | **Cal. Ver. Data Filename:** | FC0L_197 S: 12 |
| **Concentration Units:** | ng absolute | **% Moisture:** | 33.7 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.77 | 97.7 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33094-6_Form2_FC0L_197S17_SJ2755377.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | SOLID | **Lab Sample I.D.:** | WG72612-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 5.00 g |
| **Extraction Date:** | 15-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 17-Jun-2020 **Time:** 00:51:42 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_193 S: 46** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Concentration Units:** | ng/g | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 0.320 (L) | |
| **PFPeA** | U | | 0.160 (L) | |
| **PFHxA** | U | | 0.0800 (L) | |
| **PFHpA** | U | | 0.0800 (L) | |
| **PFOA** | U | | 0.0800 (L) | |
| **PFNA** | U | | 0.0800 (L) | |
| **PFDA** | U | | 0.0800 (L) | |
| **PFUnA** | U | | 0.0800 (L) | |
| **PFDoA** | U | | 0.0800 (L) | |
| **PFTrDA** | U | | 0.0800 (L) | |
| **PFTeDA** | U | | 0.0800 (L) | |
| **PFBS** | U | | 0.0800 (L) | |
| **PFPeS** | U | | 0.0800 (L) | |
| **PFHxS** | U | | 0.0800 (L) | |
| **PFHpS** | U | | 0.0800 (L) | |
| **PFOS** | U | | 0.0800 (L) | |
| **PFNS** | U | | 0.0800 (L) | |
| **PFDS** | U | | 0.0800 (L) | |
| **PFDoS** | U | | 0.0800 (L) | |
| **4:2 FTS** | U | | 0.320 (L) | |
| **6:2 FTS** | U | | 0.288 (L) | |
| **8:2 FTS** | U | | 0.320 (L) | |
| **PFOSA** | U | | 0.0800 (L) | |
| **N-MeFOSA** | U | | 0.0920 (L) | |
| **N-EtFOSA** | U | | 0.200 (L) | |
| **MeFOSAA** | U | | 0.0800 (L) | |
| **EtFOSAA** | U | | 0.0800 (L) | |
| **N-MeFOSE** | U | | 0.800 (L) | |
| **N-EtFOSE** | U | | 0.600 (L) | |
| **HFPO-DA** | U | | 0.304 (L) | |
| **ADONA** | U | | 0.320 (L) | |
| **9Cl-PF3ONS** | U | | 0.320 (L) | |
| **11Cl-PF3OUdS** | U | | 0.320 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72612-101_Form1A_FC0L_193S46_SJ2755255.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72612-101 |
| **Matrix:** | SOLID | **Sample Size:** | 5.00 g |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 00:51:42 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_193 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.1 | 90.2 | 1:52 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 102 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.72 | 97.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.20 | 92.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.84 | 88.4 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.41 | 88.3 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.65 | 93.0 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.18 | 83.6 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.43 | 68.7 | 8:52 |
| **13C3-PFBS** | | 10.0 | 9.61 | 96.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.32 | 93.2 | 6:19 |
| **13C8-PFOS** | | 10.0 | 9.83 | 98.3 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 21.5 | 107 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 18.9 | 94.5 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 21.6 | 108 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.16 | 71.6 | 8:44 |
| **D3-N-MeFOSA** | V | 10.0 | 4.48 | 44.8 | 10:10 |
| **D5-N-EtFOSA** | V | 10.0 | 4.07 | 40.7 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.7 | 103 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.5 | 97.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 58.6 | 58.6 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 59.5 | 59.5 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 94.0 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72612-101_Form2_FC0L_193S46_SJ2755255.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72612-102 (A) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 00:12:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_193 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.1 | 97.7 | 1:52 |
| **PFPeA** | | 20.0 | 19.3 | 96.3 | 4:25 |
| **PFHxA** | | 10.0 | 9.38 | 93.8 | 5:01 |
| **PFHpA** | | 10.0 | 10.2 | 102 | 5:28 |
| **PFOA** | | 10.0 | 8.99 | 89.9 | |
| **PFNA** | | 10.0 | 9.67 | 96.7 | |
| **PFDA** | | 10.0 | 9.55 | 95.5 | 7:33 |
| **PFUnA** | | 10.0 | 9.26 | 92.6 | 7:52 |
| **PFDoA** | | 10.0 | 9.48 | 94.8 | 8:08 |
| **PFTrDA** | | 10.0 | 8.77 | 87.7 | 8:27 |
| **PFTeDA** | | 10.0 | 9.76 | 97.6 | 8:51 |
| **PFBS** | | 10.0 | 9.51 | 95.1 | 4:59 |
| **PFPeS** | | 10.0 | 9.62 | 96.2 | 5:29 |
| **PFHxS** | | 10.0 | 9.36 | 93.6 | |
| **PFHpS** | | 10.0 | 9.38 | 93.8 | 7:08 |
| **PFOS** | | 10.0 | 8.98 | 89.8 | |
| **PFNS** | | 10.0 | 9.98 | 99.8 | 7:58 |
| **PFDS** | | 10.0 | 9.30 | 93.0 | 8:15 |
| **PFDoS** | | 10.0 | 8.19 | 81.9 | 9:02 |
| **4:2 FTS** | | 40.0 | 40.7 | 102 | 4:54 |
| **6:2 FTS** | | 36.1 | 33.6 | 93.1 | 5:53 |
| **8:2 FTS** | | 40.0 | 39.0 | 97.4 | 7:22 |
| **PFOSA** | | 10.0 | 9.98 | 99.8 | |
| **N-MeFOSA** | | 11.5 | 12.1 | 105 | |
| **N-EtFOSA** | | 25.0 | 23.9 | 95.4 | |
| **MeFOSAA** | | 10.0 | 9.95 | 99.5 | |
| **EtFOSAA** | | 10.0 | 9.44 | 94.4 | |
| **N-MeFOSE** | | 100 | 101 | 101 | |
| **N-EtFOSE** | | 75.0 | 76.6 | 102 | |
| **HFPO-DA** | | 38.0 | 36.5 | 96.0 | 5:10 |
| **ADONA** | | 40.0 | 39.5 | 98.8 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 40.3 | 101 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 39.3 | 98.2 | 8:29 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72612-102 (A) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 00:12:43 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_193 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.3 | 88.2 | 1:52 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.49 | 94.9 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.87 | 88.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.97 | 89.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.32 | 86.4 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.84 | 96.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.87 | 97.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.83 | 96.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.75 | 75.1 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.03 | 90.3 | 4:59 |
| **13C3-PFHxS** | | 10.0 | 8.89 | 88.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.1 | 95.6 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.4 | 81.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.7 | 88.6 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.74 | 77.4 | 8:43 |
| **D3-N-MeFOSA** | V | 10.0 | 4.76 | 47.6 | 10:10 |
| **D5-N-EtFOSA** | V | 10.0 | 4.18 | 41.8 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.3 | 101 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.0 | 100 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 64.1 | 64.1 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 64.3 | 64.3 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.8 | 91.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72612-102_Form8B_SJ2755248.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72612-103 (DUP WG72612-102) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 00:25:40 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_193 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 37.4 | 93.5 | 1:52 |
| **PFPeA** | | 20.0 | 17.9 | 89.6 | 4:25 |
| **PFHxA** | | 10.0 | 8.63 | 86.3 | 5:01 |
| **PFHpA** | | 10.0 | 9.53 | 95.3 | 5:28 |
| **PFOA** | | 10.0 | 8.42 | 84.2 | |
| **PFNA** | | 10.0 | 9.22 | 92.2 | |
| **PFDA** | | 10.0 | 8.95 | 89.5 | 7:33 |
| **PFUnA** | | 10.0 | 8.73 | 87.3 | 7:53 |
| **PFDoA** | | 10.0 | 9.53 | 95.3 | 8:08 |
| **PFTrDA** | | 10.0 | 8.24 | 82.4 | 8:27 |
| **PFTeDA** | | 10.0 | 9.49 | 94.9 | 8:51 |
| **PFBS** | | 10.0 | 9.02 | 90.2 | 4:58 |
| **PFPeS** | | 10.0 | 9.58 | 95.8 | 5:30 |
| **PFHxS** | | 10.0 | 8.94 | 89.4 | |
| **PFHpS** | | 10.0 | 8.44 | 84.4 | 7:10 |
| **PFOS** | | 10.0 | 8.28 | 82.8 | |
| **PFNS** | | 10.0 | 9.49 | 94.9 | 7:58 |
| **PFDS** | | 10.0 | 8.17 | 81.7 | 8:15 |
| **PFDoS** | | 10.0 | 6.86 | 68.6 | 9:02 |
| **4:2 FTS** | | 40.0 | 40.1 | 100 | 4:54 |
| **6:2 FTS** | | 36.1 | 32.5 | 90.1 | 5:54 |
| **8:2 FTS** | | 40.0 | 38.7 | 96.7 | 7:23 |
| **PFOSA** | | 10.0 | 9.88 | 98.8 | |
| **N-MeFOSA** | | 11.5 | 11.2 | 97.7 | |
| **N-EtFOSA** | | 25.0 | 22.0 | 88.2 | |
| **MeFOSAA** | | 10.0 | 8.90 | 89.0 | |
| **EtFOSAA** | | 10.0 | 9.28 | 92.8 | |
| **N-MeFOSE** | | 100 | 95.5 | 95.5 | |
| **N-EtFOSE** | | 75.0 | 70.7 | 94.2 | |
| **HFPO-DA** | | 38.0 | 38.3 | 101 | 5:10 |
| **ADONA** | | 40.0 | 41.6 | 104 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 41.8 | 104 | 7:53 |
| **11Cl-PF3OUdS** | | 40.0 | 38.4 | 96.0 | 8:29 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72612-103_Form8A_SJ2755251.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72612-103 (DUP WG72612-102) |
| **Matrix:** | SOLID | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 17-Jun-2020 **Time:** 00:25:40 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_193 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_193 S: 46 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_193 S: 39 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.0 | 90.0 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 20.1 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.52 | 95.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.65 | 86.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.73 | 87.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.42 | 88.4 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.99 | 99.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.67 | 93.4 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.27 | 85.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.21 | 64.1 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.54 | 95.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.09 | 90.9 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.92 | 99.2 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 20.4 | 102 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.8 | 89.2 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 19.2 | 96.0 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 7.00 | 70.0 | 8:44 |
| **D3-N-MeFOSA** | V | 10.0 | 4.25 | 42.5 | 10:10 |
| **D5-N-EtFOSA** | V | 10.0 | 3.83 | 38.3 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.9 | 99.5 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.8 | 99.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 59.9 | 59.9 | 10:02 |
| **d9-NEt-FOSE** | | 100 | 60.9 | 60.9 | 10:20 |
| **13C3-HFPO-DA** | | 40.0 | 33.7 | 84.3 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72612-103_Form8B_SJ2755251.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72612-102 (A) LAB FLAG [1] | WG72612-102 (A) CONC. FOUND | WG72612-103 LAB FLAG [1] | WG72612-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 39.1 | | 37.4 | 38.2 | 4.39 |
| **PFPeA** | | 19.3 | | 17.9 | 18.6 | 7.26 |
| **PFHxA** | | 9.38 | | 8.63 | 9.01 | 8.33 |
| **PFHpA** | | 10.2 | | 9.53 | 9.88 | 7.03 |
| **PFOA** | | 8.99 | | 8.42 | 8.70 | 6.62 |
| **PFNA** | | 9.67 | | 9.22 | 9.44 | 4.84 |
| **PFDA** | | 9.55 | | 8.95 | 9.25 | 6.45 |
| **PFUnA** | | 9.26 | | 8.73 | 8.99 | 5.94 |
| **PFDoA** | | 9.48 | | 9.53 | 9.51 | 0.603 |
| **PFTrDA** | | 8.77 | | 8.24 | 8.50 | 6.14 |
| **PFTeDA** | | 9.76 | | 9.49 | 9.63 | 2.87 |
| **PFBS** | | 9.51 | | 9.02 | 9.26 | 5.26 |
| **PFPeS** | | 9.62 | | 9.58 | 9.60 | 0.435 |
| **PFHxS** | | 9.36 | | 8.94 | 9.15 | 4.59 |
| **PFHpS** | | 9.38 | | 8.44 | 8.91 | 10.6 |
| **PFOS** | | 8.98 | | 8.28 | 8.63 | 8.14 |
| **PFNS** | | 9.98 | | 9.49 | 9.74 | 5.04 |
| **PFDS** | | 9.30 | | 8.17 | 8.73 | 13.0 |
| **PFDoS** | | 8.19 | | 6.86 | 7.52 | 17.6 |
| **4:2 FTS** | | 40.7 | | 40.1 | 40.4 | 1.63 |
| **6:2 FTS** | | 33.6 | | 32.5 | 33.0 | 3.33 |
| **8:2 FTS** | | 39.0 | | 38.7 | 38.8 | 0.738 |
| **PFOSA** | | 9.98 | | 9.88 | 9.93 | 0.972 |
| **N-MeFOSA** | | 12.1 | | 11.2 | 11.7 | 7.13 |
| **N-EtFOSA** | | 23.9 | | 22.0 | 23.0 | 7.92 |
| **MeFOSAA** | | 9.95 | | 8.90 | 9.43 | 11.2 |
| **EtFOSAA** | | 9.44 | | 9.28 | 9.36 | 1.71 |
| **N-MeFOSE** | | 101 | | 95.5 | 98.2 | 5.50 |
| **N-EtFOSE** | | 76.6 | | 70.7 | 73.6 | 8.09 |
| **HFPO-DA** | | 36.5 | | 38.3 | 37.4 | 4.81 |
| **ADONA** | | 39.5 | | 41.6 | 40.6 | 5.10 |
| **9Cl-PF3ONS** | | 40.3 | | 41.8 | 41.1 | 3.50 |
| **11Cl-PF3OUdS** | | 39.3 | | 38.4 | 38.8 | 2.29 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: RPD_FC_LC_PFAS-RPD_WG72612-103_WG72612-102_.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| COMPOUND | LAB FLAG [1] | PERCENT RECOVERY (%) CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | CS7 | CS8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87810.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87810.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87810.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_193 S: 39 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 23:20:39 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:54 | 40.0 | 39.5 | 98.8 |
| **PFPeA** | | 4:26 | 20.0 | 19.8 | 98.8 |
| **PFHxA** | | 5:01 | 10.0 | 9.76 | 97.6 |
| **PFHpA** | | 5:29 | 10.0 | 9.65 | 96.5 |
| **PFOA** | | 6:12 | 10.0 | 8.93 | 89.3 |
| **PFNA** | | 7:03 | 10.0 | 9.91 | 99.1 |
| **PFDA** | | 7:33 | 10.0 | 9.47 | 94.7 |
| **PFUnA** | | 7:53 | 10.0 | 10.0 | 100 |
| **PFDoA** | | 8:09 | 10.0 | 10.9 | 109 |
| **PFTrDA** | | 8:27 | 10.0 | 9.56 | 95.6 |
| **PFTeDA** | | 8:51 | 10.0 | 10.1 | 101 |
| **PFBS** | | 4:59 | 10.0 | 9.48 | 94.8 |
| **PFPeS** | | 5:30 | 10.0 | 10.3 | 103 |
| **PFHxS** | | 6:19 | 10.0 | 10.2 | 102 |
| **PFHpS** | | 7:10 | 10.0 | 9.78 | 97.8 |
| **PFOS** | | 7:39 | 10.0 | 9.23 | 92.3 |
| **PFNS** | | 7:58 | 10.0 | 10.2 | 102 |
| **PFDS** | | 8:15 | 10.0 | 9.45 | 94.5 |
| **PFDoS** | | 9:02 | 10.0 | 9.70 | 97.0 |
| **4:2 FTS** | | 4:54 | 40.0 | 41.2 | 103 |
| **6:2 FTS** | | 5:54 | 36.0 | 34.2 | 95.1 |
| **8:2 FTS** | | 7:23 | 40.0 | 41.2 | 103 |
| **PFOSA** | | 8:43 | 10.0 | 9.66 | 96.6 |
| **N-MeFOSA** | | 10:10 | 11.5 | 11.0 | 95.2 |
| **N-EtFOSA** | | 10:28 | 25.0 | 23.9 | 95.5 |
| **MeFOSAA** | | 7:37 | 10.0 | 9.76 | 97.6 |
| **EtFOSAA** | | 7:45 | 10.0 | 10.0 | 100 |
| **N-MeFOSE** | | 10:03 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:21 | 75.0 | 76.9 | 103 |
| **HFPO-DA** | | 5:10 | 40.0 | 38.1 | 95.3 |
| **ADONA** | | 5:42 | 40.0 | 42.0 | 105 |
| **9Cl-PF3ONS** | | 7:53 | 40.0 | 41.7 | 104 |
| **11Cl-PF3OUdS** | | 8:29 | 40.0 | 42.9 | 107 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_193S39__Form4A_SJ2755242.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_193 S: 39 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 23:20:39 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.0 | 97.6 |
| **13C5-PFPeA** | | 4:26 | 20.0 | 21.2 | 106 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:29 | 10.0 | 10.2 | 102 |
| **13C8-PFOA** | | 6:12 | 10.0 | 10.2 | 102 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.86 | 97.2 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.21 | 104 |
| **13C7-PFUnA** | | 7:53 | 5.00 | 5.11 | 102 |
| **13C2-PFDoA** | | 8:09 | 5.00 | 5.11 | 102 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.92 | 98.4 |
| **13C3-PFBS** | | 4:59 | 9.18 | 10.2 | 111 |
| **13C3-PFHxS** | | 6:19 | 10.0 | 10.2 | 102 |
| **13C8-PFOS** | | 7:39 | 10.0 | 10.7 | 107 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 17.6 | 88.2 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 18.1 | 90.7 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 20.0 | 100 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 12.7 | 127 |
| **D3-N-MeFOSA** | | 10:10 | 10.0 | 12.2 | 122 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 11.2 | 112 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 23.2 | 116 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 25.4 | 127 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 150 | 150 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 144 | 144 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 39.2 | 97.9 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_193S39__Form4B_SJ2755242.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_193 S: 56 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 17-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 03:01:44 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:54 | 40.0 | 39.9 | 99.7 |
| **PFPeA** | | 4:25 | 20.0 | 19.5 | 97.6 |
| **PFHxA** | | 5:01 | 10.0 | 9.74 | 97.4 |
| **PFHpA** | | 5:28 | 10.0 | 9.30 | 93.0 |
| **PFOA** | | 6:12 | 10.0 | 9.27 | 92.7 |
| **PFNA** | | 7:03 | 10.0 | 9.62 | 96.2 |
| **PFDA** | | 7:33 | 10.0 | 9.53 | 95.3 |
| **PFUnA** | | 7:53 | 10.0 | 9.75 | 97.5 |
| **PFDoA** | | 8:08 | 10.0 | 10.6 | 106 |
| **PFTrDA** | | 8:27 | 10.0 | 9.15 | 91.5 |
| **PFTeDA** | | 8:51 | 10.0 | 9.85 | 98.5 |
| **PFBS** | | 4:58 | 10.0 | 9.86 | 98.6 |
| **PFPeS** | | 5:30 | 10.0 | 10.1 | 101 |
| **PFHxS** | | 6:18 | 10.0 | 10.3 | 103 |
| **PFHpS** | | 7:09 | 10.0 | 9.83 | 98.3 |
| **PFOS** | | 7:39 | 10.0 | 9.61 | 96.1 |
| **PFNS** | | 7:58 | 10.0 | 10.8 | 108 |
| **PFDS** | | 8:15 | 10.0 | 9.69 | 96.9 |
| **PFDoS** | | 9:02 | 10.0 | 9.55 | 95.5 |
| **4:2 FTS** | | 4:53 | 40.0 | 42.7 | 107 |
| **6:2 FTS** | | 5:54 | 36.0 | 35.3 | 98.1 |
| **8:2 FTS** | | 7:23 | 40.0 | 38.5 | 96.3 |
| **PFOSA** | | 8:44 | 10.0 | 9.63 | 96.3 |
| **N-MeFOSA** | | 10:10 | 11.5 | 11.5 | 100 |
| **N-EtFOSA** | | 10:28 | 25.0 | 22.1 | 88.4 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.2 | 102 |
| **EtFOSAA** | | 7:45 | 10.0 | 9.88 | 98.8 |
| **N-MeFOSE** | | 10:03 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:21 | 75.0 | 75.7 | 101 |
| **HFPO-DA** | | 5:09 | 40.0 | 37.9 | 94.9 |
| **ADONA** | | 5:41 | 40.0 | 39.2 | 98.1 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 42.0 | 105 |
| **11Cl-PF3OUdS** | | 8:29 | 40.0 | 40.8 | 102 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_193S56__Form4A_SJ2755265.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_193 S: 56 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 17-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 03:01:44 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 38.7 | 96.6 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 22.1 | 111 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.2 | 102 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.2 | 102 |
| **13C8-PFOA** | | 6:12 | 10.0 | 9.73 | 97.3 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.93 | 98.6 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.12 | 102 |
| **13C7-PFUnA** | | 7:53 | 5.00 | 4.84 | 96.8 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.33 | 107 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.80 | 96.1 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.50 | 104 |
| **13C3-PFHxS** | | 6:18 | 10.0 | 9.87 | 98.7 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.2 | 102 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 16.4 | 82.0 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 17.8 | 89.2 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 19.4 | 96.9 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 10.0 | 100 |
| **D3-N-MeFOSA** | | 10:10 | 10.0 | 10.3 | 103 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 10.2 | 102 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 18.6 | 93.0 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 18.8 | 94.0 |
| **d7-NMe-FOSE** | | 10:02 | 100 | 115 | 115 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 115 | 115 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 41.5 | 104 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 23-Jun-2020 14:29:40; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_193S56__Form4B_SJ2755265.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_197 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 11:33:25 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:54 | 40.0 | 39.0 | 97.4 |
| **PFPeA** | | 4:25 | 20.0 | 18.0 | 89.9 |
| **PFHxA** | | 5:01 | 10.0 | 9.51 | 95.1 |
| **PFHpA** | | 5:29 | 10.0 | 9.33 | 93.3 |
| **PFOA** | | 6:12 | 10.0 | 8.96 | 89.6 |
| **PFNA** | | 7:03 | 10.0 | 9.90 | 99.0 |
| **PFDA** | | 7:33 | 10.0 | 9.27 | 92.7 |
| **PFUnA** | | 7:53 | 10.0 | 9.56 | 95.6 |
| **PFDoA** | | 8:08 | 10.0 | 10.0 | 100 |
| **PFTrDA** | | 8:27 | 10.0 | 9.56 | 95.6 |
| **PFTeDA** | | 8:52 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:58 | 10.0 | 9.23 | 92.3 |
| **PFPeS** | | 5:30 | 10.0 | 9.81 | 98.1 |
| **PFHxS** | | 6:19 | 10.0 | 8.07 | 80.7 |
| **PFHpS** | | 7:09 | 10.0 | 8.91 | 89.1 |
| **PFOS** | | 7:39 | 10.0 | 8.60 | 86.0 |
| **PFNS** | | 7:58 | 10.0 | 9.99 | 99.9 |
| **PFDS** | | 8:15 | 10.0 | 8.91 | 89.1 |
| **PFDoS** | | 9:02 | 10.0 | 8.95 | 89.5 |
| **4:2 FTS** | | 4:53 | 40.0 | 40.3 | 101 |
| **6:2 FTS** | | 5:54 | 36.0 | 32.0 | 88.8 |
| **8:2 FTS** | | 7:23 | 40.0 | 35.4 | 88.6 |
| **PFOSA** | | 8:44 | 10.0 | 8.72 | 87.2 |
| **N-MeFOSA** | | 10:10 | 11.5 | 11.1 | 96.5 |
| **N-EtFOSA** | | 10:27 | 25.0 | 18.2 | 72.8 |
| **MeFOSAA** | | 7:37 | 10.0 | 9.49 | 94.9 |
| **EtFOSAA** | | 7:45 | 10.0 | 9.28 | 92.8 |
| **N-MeFOSE** | | 10:03 | 100 | 87.1 | 87.1 |
| **N-EtFOSE** | | 10:20 | 75.0 | 55.2 | 73.6 |
| **HFPO-DA** | | 5:09 | 40.0 | 39.9 | 99.7 |
| **ADONA** | | 5:42 | 40.0 | 39.6 | 99.1 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 41.3 | 103 |
| **11Cl-PF3OUdS** | | 8:29 | 40.0 | 38.9 | 97.2 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 13-Jul-2020 09:54:24; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_197S12__Form4A_SJ2755372.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_197 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 11:33:25 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.6 | 99.1 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 22.0 | 110 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.5 | 105 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 9.98 | 99.8 |
| **13C8-PFOA** | | 6:12 | 10.0 | 9.72 | 97.2 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.78 | 95.6 |
| **13C6-PFDA** | | 7:33 | 5.00 | 4.98 | 99.6 |
| **13C7-PFUnA** | | 7:53 | 5.00 | 5.05 | 101 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 4.93 | 98.7 |
| **13C2-PFTeDA** | | 8:52 | 5.00 | 4.39 | 87.9 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.81 | 107 |
| **13C3-PFHxS** | | 6:19 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:39 | 10.0 | 11.5 | 115 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 13.6 | 68.2 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 14.0 | 70.1 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 16.7 | 83.4 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 10.4 | 104 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 11.2 | 112 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 11.4 | 114 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 18.2 | 91.0 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 17.4 | 86.8 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 113 | 113 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 118 | 118 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 41.7 | 104 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 13-Jul-2020 09:54:24; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_197S12__Form4B_SJ2755372.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_197 S: 18 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 12:51:31 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:54 | 40.0 | 39.0 | 97.6 |
| **PFPeA** | | 4:25 | 20.0 | 18.2 | 90.8 |
| **PFHxA** | | 5:00 | 10.0 | 9.20 | 92.0 |
| **PFHpA** | | 5:28 | 10.0 | 9.85 | 98.5 |
| **PFOA** | | 6:12 | 10.0 | 9.22 | 92.2 |
| **PFNA** | | 7:03 | 10.0 | 9.80 | 98.0 |
| **PFDA** | | 7:33 | 10.0 | 9.28 | 92.8 |
| **PFUnA** | | 7:53 | 10.0 | 9.34 | 93.4 |
| **PFDoA** | | 8:08 | 10.0 | 10.1 | 101 |
| **PFTrDA** | | 8:27 | 10.0 | 9.66 | 96.6 |
| **PFTeDA** | | 8:51 | 10.0 | 10.3 | 103 |
| **PFBS** | | 4:58 | 10.0 | 9.83 | 98.3 |
| **PFPeS** | | 5:30 | 10.0 | 10.3 | 103 |
| **PFHxS** | | 6:18 | 10.0 | 8.42 | 84.2 |
| **PFHpS** | | 7:09 | 10.0 | 10.0 | 100 |
| **PFOS** | | 7:39 | 10.0 | 9.21 | 92.1 |
| **PFNS** | | 7:58 | 10.0 | 10.1 | 101 |
| **PFDS** | | 8:15 | 10.0 | 9.54 | 95.4 |
| **PFDoS** | | 9:02 | 10.0 | 10.1 | 101 |
| **4:2 FTS** | | 4:53 | 40.0 | 42.2 | 105 |
| **6:2 FTS** | | 5:54 | 36.0 | 34.4 | 95.6 |
| **8:2 FTS** | | 7:23 | 40.0 | 37.3 | 93.2 |
| **PFOSA** | | 8:44 | 10.0 | 8.99 | 89.9 |
| **N-MeFOSA** | | 10:10 | 11.5 | 10.9 | 94.8 |
| **N-EtFOSA** | | 10:27 | 25.0 | 18.3 | 73.3 |
| **MeFOSAA** | | 7:36 | 10.0 | 9.19 | 91.9 |
| **EtFOSAA** | | 7:45 | 10.0 | 8.60 | 86.0 |
| **N-MeFOSE** | | 10:02 | 100 | 86.8 | 86.8 |
| **N-EtFOSE** | | 10:20 | 75.0 | 54.1 | 72.1 |
| **HFPO-DA** | | 5:09 | 40.0 | 38.3 | 95.8 |
| **ADONA** | | 5:41 | 40.0 | 39.5 | 98.8 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 36.5 | 91.3 |
| **11Cl-PF3OUdS** | | 8:29 | 40.0 | 38.1 | 95.3 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 13-Jul-2020 09:54:24; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_197S18__Form4A_SJ2755378.html; Workgroup: WG72612; Design ID: 3770 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_197 S: 18 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 19-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 12:51:31 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.3 | 98.2 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 20.7 | 104 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.4 | 104 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.1 | 101 |
| **13C8-PFOA** | | 6:12 | 10.0 | 9.66 | 96.6 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.75 | 95.1 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.25 | 105 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.29 | 106 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.12 | 102 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.81 | 96.2 |
| **13C3-PFBS** | | 4:58 | 9.18 | 10.1 | 110 |
| **13C3-PFHxS** | | 6:18 | 10.0 | 10.2 | 102 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.9 | 109 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 16.8 | 83.9 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 17.2 | 86.0 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 19.9 | 99.7 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 10.5 | 105 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 11.3 | 113 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 11.4 | 114 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 20.2 | 101 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 18.3 | 91.6 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 108 | 108 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 112 | 112 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 40.4 | 101 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 13-Jul-2020 09:54:24; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_197S18__Form4B_SJ2755378.html; Workgroup: WG72612; Design ID: 3770 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

## Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | Y | Y | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | Y | Y | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | Y | Y | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | | Y | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | | Y | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | | Y | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | | Y | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | | Y | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | | Y | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | Y | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000024792

**Contract: 4095**
**Data Package Identification: DPWG72885**

**Analysis WG72596 / WG72597**

## 10 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES**

**PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**

**4095:** L33068-41 to -75

**Project name: P1007/60608807**
**Work order number: 3000024792**

**10 July 2020**

## NARRATIVE

This narrative describes the analysis of thirty-five aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 13th of May 2020. The temperature of the samples upon receipt ranged from 3.3˚C to 8.7ºC which was above the method recommended arrival temperature of 0-4°C. The samples were stored at -20˚C in the dark prior to extraction and analysis. For the WL7-WAT-BULK-03-050720 and WL12-WAT-BULK-02-050720 samples, a discrepancy between the chain of custody and sample container labels was identified and communicated by the client. A copy of the communication is provided with this data package.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were all analyzed in two analysis batches designated as WG72596 and WG72597; the composition of which is shown on the Correlation Table included with this data package. The QC samples consisted of a laboratory procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, a duplicate of the OPR sample (OPR DUP) a matrix spike (MS) and duplicate matrix spike sample (MSD). The laboratory procedural blank and OPR samples were both prepared using Canadian Springs water as the matrix. The MS and MSD samples were both prepared using individual portions of the WL7-WAT-BULK-03-050720 sample.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 500 mL of sample was accurately weighed and then spiked with isotopically labeled quantification standards. Each sample was then extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

**REPORTING CONVENTIONS**

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L33068-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix and combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
i = instrumental re-analysis performed on the sample extract
N = a large dilution of the sample extract followed by instrumental re-analysis

The laboratory qualifiers used to report results were as follows:

D = dilution data
E = instrument response for target analyte above calibrated linear range, see dilution data
J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
N = target analyte recovery for the OPR or OPR DUP sample was not within the contract specific criteria limits
U = identifies a compound that was not detected
V = surrogate recovery is not within method control limits
X = result reported separately

For all target analytes, the results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The field and QC samples were analyzed in two analysis batches and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Target analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank and labeled compound recovery specifications were met with the following exceptions:

***WG72596***

For the OPR sample (SGS AXYS ID: WG72596-102), the percent recoveries for some target analytes were below the client specified upper limit (80%) and were flagged with an 'N'. The same results met the SGS AXYS method criteria limit. Data was not considered to be affected.

***WG72597***

For some field samples, the percent recovery of the surrogate compound 13C4-PFBA was below the the client specified lower criteria limit and flagged with a 'V'. As the isotope dilution method of quantification

produces data that are recovery corrected, these variances were deemed to not affect the quantification of the target analytes. Percent surrogate recoveries are used as a general method performance indicator only.

For the OPR and OPR duplicate samples (SGS AXYS IDs: WG72597-102 and -103, respectively), the Relative Percent Difference (RPD) for the target analyte PFDoA (28.4%) was above the client specified limit (20%). Overall, good agreement was demonstrated between the target analyte concentrations for both samples.

**ANALYTICAL DISCUSSION**

***WG72596***

Due to instrument disruption, the extracts for all samples were instrumentally reanalyzed. For all samples, the results were reported from the re-injection data (indicated with suffix 'i' following the SGS AXYS ID added).

***WG72597***

For the samples (SGS AXYS IDs: L33068-69 and -70), the instrument response for the target analyte PFOS was above the calibrated linear range of the instrument. As remedial action, the extracts for these samples were instrumentally were diluted and instrumentally re-analyzed. The final results were reported from the dilution data (indicated with the suffix 'N' following the SGS AXYS ID).

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72885. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Andrew Porat — 10-July 2020

Andrew Porat, Data Validation Chemist — Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

## 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |



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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.



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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000024792** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG72885** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72596-101 |
| OPR | WG72596-102 |
| MATRIX SPIKE | WG72596-103 |
| MATRIX SPIKE DUPLICATE | WG72596-104 |
| | |
| RC17-WAT-BULK-01-050520 | L33068-41 |
| RC18A-WAT-BULK-01-050520 | L33068-42 |
| RC18A-WAT-SML-01-050520 | L33068-43 |
| RC18-WAT-BULK-01-050520 | L33068-44 |
| FC1-WAT-BULK-01-050520 | L33068-45 |
| EP21-WAT-BULK-01-050520 | L33068-46 |
| WL11-WAT-BULK-01-050520 | L33068-47 |
| WL15-WAT-BULK-01-050520 | L33068-48 |
| WL6-WAT-BULK-01-050720 | L33068-49 |
| WL7-WAT-BULK-01-050720 | L33068-50 |
| WL7-WAT-BULK-02-050720 | L33068-51 |
| WL7-WAT-BULK-03-050720 | L33068-52 |
| WL9-WAT-BULK-01-050720 | L33068-53 |
| WL9-WAT-EPI-01-050720 | L33068-54 |
| WL9-WAT-SML-01-050720 | L33068-55 |
| WL12-WAT-BULK-01-050720 | L33068-56 |
| WL12-WAT-BULK-02-050720 | L33068-57 |
| RC16A-WAT-BULK-01-050720 | L33068-58 |
| RC14-WAT-BULK-01-050720 | L33068-59 |
| RC21-WAT-BULK-01-050720 | L33068-60 |
| | |
| | |
| | |
| | |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000024792** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG72885** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72597-101 |
| OPR | WG72597-102 |
| OPR DUPLICATE | WG72597-103 |
| | |
| RC21-WAT-BULK-02-050720 | L33068-61 |
| EP20-WAT-BULK-01-050720 | L33068-62 |
| EP20-WAT-EPI-01-050720 | L33068-63 |
| EP20-WAT-SML-01-050720 | L33068-64 |
| EP23-WAT-BULK-01-050720 | L33068-65 |
| EP23-WAT-SML-01-050720 | L33068-66 |
| EP24-WAT-BULK-01-050720 | L33068-67 |
| EP24-WAT-BULK-02-050720 | L33068-68 |
| RC7-WAT-BULK-01-050820 | L33068-69 |
| RC20-WAT-BULK-01-050820 | L33068-70 |
| EP8-WAT-BULK-01-050820 | L33068-71 |
| WL18-WAT-BULK-01-050820 | L33068-72 |
| EP17-WAT-BULK-01-051120 | L33068-73 |
| EP25-WAT-BULK-01-051120 | L33068-74 |
| EP21-WAT-SML-01-042420 | L33068-75 |
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| | |
| | |
| | |

SGS AXYS

1 of 1

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Cannon
Signature:

ANALYSIS REQUESTED: MLA-110; TRIP BLANK

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 | TRIP BLANK | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-042820 | W | 4/28/20 | 1730 | HDPE/4 | L33068-15 | X | | | | |
| RC12-WAT-BULK-01-042820 | ↓ | 4/28/20 | 1800 | ↓ | -16 | X | | | | |
| RC14-WAT-BULK-01-042820 | ↓ | 4/28/20 | 1830 | ↓ | -17 | X | | | | |
| RC21-WAT-BULK-01-042820 | ↓ | 4/28/20 | 1900 | ↓ | -18 | X | | | | |
| RC3-WAT-BULK-01-042920 | ↓ | 4/29/20 | 0900 | ↓ | -19 | X | | | | |
| RC7-WAT-BULK-01-042920 | ↓ | 4/29/20 | 0945 | ↓ | -20 | X | | | | |
| RC12-WAT-BULK-01-042920 | ↓ | 4/29/20 | 1030 | ↓ | -21 | X | | | | |
| RC14-WAT-BULK-01-042920 | ↓ | 4/29/20 | 1145 | ↓ | -22 | X | | | | |
| RC21-WAT-BULK-01-042920 | ↓ | 4/29/20 | 1130 | ↓ | -23 | X | | | | |
| EP16-WAT-BULK-01-042920 | ↓ | 4/29/20 | 1530 | ↓ | -24 | X | | | | |
| TRIP BLANK | ↓ | 4/30/20 | | HDPE/1 | L33068-1 | X | X | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time | Courier | Waybill No. |
|---|---|---|---|---|---|---|---|
| [signature] | 5/2/20 | 1400 | [signature] | 13 MAY 2020 | 10:25 | | 8125 4333 1227 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time | | |

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLA-110 | TRIP BLANK |
|---|---|---|---|---|---|---|---|
| EP19-WAT-BULK-01-042920 | W | 4/29/20 | 1445 | HDPE/4 | L33068-25 | X | |
| EP20-WAT-BULK-01-042920 | W | 4/29/20 | 1345 | HDPE/4 | -26 | X | |
| WL6-WAT-BULK-01-042920 | W | 4/29/20 | 1600 | HDPE/4 | -27 | X | |
| WL9-WAT-BULK-01-042920 | W | 4/29/20 | 1630 | HDPE/4 | -28 | X | |
| WL12-WAT-BULK-01-042920 | W | 4/29/20 | 1700 | HDPE/4 | -29 | X | |
| WL15-WAT-BULK-01-042920 | W | 4/29/20 | 1730 | HDPE/4 | -30 | X | |
| VB1-WAT-BULK-01-042920 | W | 4/29/20 | 1740 | HDPE/4 | -31 | X | |
| RC12-FOAM-01-042820 | W | 4/28/20 | 1750 | HDPE/1 | L33069-1 | X | |
| TRIP BLANK | W | 4/30/20 | — | HDPE/1 | L33068-8 | X | X |

Relinquished by (Signature): [signature] Date: 5/12/20 Time: 1400
Received by (Signature): Jennifer Carlson Date: 13 May 2020 Time: 10:25

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Courier:
Waybill No.: 8125 4333 1180

Remarks: High concentration: RC12-FOAM-01-042820

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | EB/TB Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-050420 | W | 05/04/20 | 1045 | HDPE/4 | L33068-32 | X | | | |
| EP4-WAT-BULK-01-050420 | | | 1455 | | -33 | X | | | |
| EP19-WAT-BULK-01-050420 | | | 1530 | | -34 | X | | | |
| BP1-WAT-BULK-01-050420 | | | 1530 | | -35 | X | | | |
| VB1-WAT-BULK-01-050420 | | | 1045 | | -36 | X | | | |
| VB2-WAT-BULK-01-050420 | | | 1145 | | -37 | X | | | |
| VB3-WAT-BULK-01-050420 | | | 1300 | | -38 | X | | | |
| TRIP BLANK | | 5/4/20 | — | HDPE/1 | -4 | X | | | X |
| EQ-DIPPER-01-051220 | W | 5/12/20 | 1300 | HDPE/2 | -9 | X | | | |
| EQ-HOSECLAMP-01-051220 | W | 5/12/20 | 1245 | HDPE/2 | -10 | X | | | |
| EQ-ZIPLOCK-01-051220 | W | 5/12/20 | 1230 | HDPE/2 | -11 | X | | | |

Relinquished by (Signature) Date: 5/12/20 Time: 1400
Received by (Signature): Jennifer Carlson Date: 13 May 2020 Time: 10:25

Relinquished by (Signature) Date: Time:
Received by (Signature) Date: Time:

Courier: FedEx
Waybill No.: No waybill assigned

Sample Receipt: $143 declared value

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks:

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Lararo
Phone: 612-376-2452
FAX:
E-mail: andrew.lararo@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007-18606187S3

Sampler's Name: Amanda Lannin
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MWA-110 | M25 | MSID | TOPA | TEQ B |
|---|---|---|---|---|---|---|---|---|---|---|
| RC5-WAT-BULK-01-050420 | W | 5/4/20 | 1155 | HDPE/8 | L33071-1 | X | | | X | |
| RC5-WAT-BULK-02-050420 | W | 5/4/20 | 1200 | HDPE/4 | L33068-39 | X | | | | |
| RC5-WAT-BULK-03-050420 | W | 5/4/20 | 1205 | HDPE/8 | -40 | X | X | X | | |
| RC18A-FOAM-OLD-01-050520 | Sludge | 5/5/20 | 1745 | HDPE/2 | L33069-2 | X | | | | |
| RC18A-FOAM-FRESH-01-050520 | W | 5/5/20 | 1800 | HDPE/1 | -3 | X | | | | |
| RC21-FOAM-01-042320 | W | 4/23/20 | 1020 | HDPE/2 | -4 | | | | | |
| EP21-FOAM-01-042320 | W | 4/23/20 | 1200 | HDPE/1 | -5 | | | | | |
| EP21-FOAM-01-050520 | W | 5/5/20 | 1435 | HDPE/1 | -6 | | | | | |
| EP21-FOAM-02-050520 | W | 5/5/20 | 1440 | HDPE/1 | -7 | | | | | |
| EP21-WATSML-01-042420 | W | 4/24/20 | 1515 | HDPE/1 | L33068-75 | | | | | |
| EP25-FOAM-01-051120 | W | 5/11/20 | 1245 | HDPE/2 | -8 | | | | | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature)
Date 13 MAY 2020 Time 10:25

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Courier: FedEX
Waybill No.: 8125 4333 1157

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks
RC5-WAT-BULK-03-050420 = MS and MSD
RC18-FOAM-OLD-01-050520, high concentration; sludge - run both liquid & solids
RC18-FOAM-FRESH-01-050520, high concentration
RC21-FOAM-01-042320
EP21-FOAM-01-042320
EP21-FOAM-01-050520
EP21-FOAM-02-050520
EP25-FOAM-01-051120
suspected high concentrations

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
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SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100
Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007 / 60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MUA-110 | M3 | M57 | TBA | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|---|
| WL11-FOAM-01-050520 | W | 5/5/20 | 1120 | HDPE/1 | L33069-9 | X | | | | |
| TRIP BLANK | W | 5/12/20 | — | HDPE/1 | L33068-2 | | | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Date 13MAY2020 Time 10:25 | FedEX | 8125 4333 1157 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time | Sample Receipt | |

| Sample Receipt | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks
WL11-FOAM-01-050520: Potential High Concentrations

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 500 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 500 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | PFAS-MA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC17-WAT-BULK-01-050520 | W | 5/5/20 | 0945 | HDPE/4 | L33068-41 | X | | | |
| RC18A-WAT-BULK-01-050520 | W | 5/5/20 | 1730 | HDPE/4 | -42 | X | | | |
| RC18A-WAT-SML-BULK-01-050520 | W | 5/5/20 | 1700 | HDPE/1 | -43 | X | | | |
| RC18-WAT-BULK-01-050520 | W | 5/5/20 | 1030 | HDPE/4 | -44 | X | | | |
| FC1-WAT-BULK-01-050520 | W | 5/5/20 | 1130 | HDPE/4 | -45 | X | | | |
| EP21-WAT-BULK-01-050520 | W | 5/5/20 | 1455 | HDPE/4 | -46 | X | | | |
| WL11-WAT-BULK-01-050520 | W | 5/5/20 | 1125 | HDPE/4 | -47 | X | | | |
| WL15-WAT-BULK-01-050520 | W | 5/5/20 | 1235 | HDPE/4 | -48 | X | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TRIP BLANK | W | | | HDPE/1 | | X | | | X |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlson
Date 13 May 2020 Time 10:25

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Courier: FedEx
Waybill No.: 8149 0205 4440

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

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Contact: Andrea Tarara
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E-mail: andrea.tarara@aecom.com

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Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| WL6-WAT-BULK-01-050720 | W | 5/7/20 | 1500 | HDPE/4 | L33068-49 | X | | | |
| WL7-WAT-BULK-01-050720 | W | 5/7/20 | 1320 | HDPE/4 | -50 | X | | | |
| WL7-WAT-BULK-02-050720 | W | | 1325 ~~1525~~ | HDPE/4 | -51 | X | | | |
| WL7-WAT-BULK-01-050720 | W | | 1330 ~~1530~~ | HDPE/8 | -52 | X | X | X | |
| WL9-WAT-BULK-01-050720 | W | | 1045 ~~1100~~ | HDPE/4 | -53 | X | | | |
| WL9-WAT-EFI-01-050720 | W | | 1100 ~~1045~~ | HDPE/4 | -54 | X | | | |
| WL9-WAT-SML-01-050720 | W | | 1030 | HDPE/1 | -55 | X | | | |
| WL12-WAT-BULK-01-050720 | W | | 1200 | HDPE/4 | -56 | X | | | |
| WL12-WAT-BULK-02-050720 | W | | 1210 | HDPE/4 | -57 | X | | | |
| TRIP BLANK | W | 5/10/20 | — | HDPE/1 | -3 | X | | | X |

Relinquished by (Signature): [signature] Date: 5/12/20 Time: 1400
Received by (Signature): Jennifer Carlson Date: 13 May 2020 Time: 10:25

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Courier: FedEx
Waybill No.: 825 4333 1249

Remarks: WL7-WAT-BULK-01-050720 - MS + MSD samples

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
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Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

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Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | TRIP Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC16A-WAT-BULK-01-050720 | W | 5/7/20 | 1610 | HDPE/4 | L33068-58 | X | | | |
| RC14-WAT-BULK-01-050720 | W | 5/7/20 | 1245 | HDPE/4 | -59 | X | | | |
| RC21-WAT-BULK-01-050720 | W | | 1215 | HDPE/4 | -60 | X | | | |
| RC21-WAT-BULK-02-050720 | W | | 1220 | HDPE/4 | -61 | X | | | |
| EP20-WAT-BULK-01-050720 | W | | 1435 | HDPE/4 | -62 | X | | | |
| EP20-WAT-EPI-01-050720 | W | | 1430 | HDPE/4 | -63 | X | | | |
| EP20-WAT-SML-01-050720 | W | | 1400 | HDPE/1 | -64 | X | | | |
| EP23-WAT-BULK-01-050720 | W | | 1715 | HDPE/4 | -65 | X | | | |
| EP23-WAT-SML-01-050720 | W | | 1700 | HDPE/1 | -66 | X | | | |
| EP24-WAT-BULK-01-050720 | W | | 1710 | HDPE/4 | -67 | X | | | |
| EP24-WAT-BULK-02-050720 | W | | 1720 | HDPE4 | -68 | X | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlsen | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier: FedEx
Waybill No.: 8125 4333 1216

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

TRIP BLANK 5/12/20 HDPE/1 MLA-110 L33068-5

www.axysanalytical.com

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| RC7-WAT-BULK-01-051820 | W | 5/8/20 | 0945 | HDPE/4 | L33068-69 | X | | | | |
| RC20-WAT-BULK-01-051820 | W | 5/8/20 | 1405 | HDPE/4 | -70 | X | | | | |
| EP8-WAT-BULK-01-051820 | W | 5/8/20 | 1310 | HDPE/4 | -71 | X | | | | |
| WL18-WAT-BULK-01-051820 | W | 5/8/20 | 1115 | HDPE/4 | -72 | X | | | | |
| EP16-WAT-BULK-01-051120 | W | 5/11/20 | 1400 | HDPE/8 | L33071-2 | X | | | | X |
| EP17-WAT-BULK-01-051120 | W | 5/11/20 | 1100 | HDPE/4 | -73 | X | | | | |
| EP25-WAT-BULK-01-051120 | W | 5/11/20 | 1230 | HDPE/4 | -74 | X | | | | |
| EQ-ALUGEK-01-051220 | W | 5/12/20 | 1330 | HDPE/2 | -13 | X | | | | |
| EQ-PALL-01-051220 | W | 5/12/20 | 1345 | HDPE/2 | -14 | X | | | | |
| ~~EQ-SAMPLER-01-051220~~ | ~~W~~ | ~~5/12/20~~ | ~~1315~~ | ~~HDPE/2~~ | | ~~X~~ | | | | |
| TripBlank | W | 5/12/20 | — | HDPE/1 | -7 | X | | | X | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlson | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Remarks

Courier: FedEX
Waybill No.: No waybill assigned #137 declared value

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

2 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100
Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: 49007-60618753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: MVA-110

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MVA-110 |
|---|---|---|---|---|---|---|
| EQ-SHOVEL-01-051220 | W | 5/12/20 | 1315 | HDPE/2 | L33068-12 | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 5/12/20 | 1400 | [signature] | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |

Remarks

Courier: Fed Ex
Waybill No.: No waybill assigned - $143 declared value

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form revision 2017.0328

* indicates a required field

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

**PROJECT/CLIENT INFO**

Facility Code:* SR0001491

Program Code (MDH Lab Only):

Project Name:* Project 1007

Project Task Code:* PRJ08141

Project Manager: Andrew Tarara

Potential Hazard? If yes, add information to **Sampler Comments** field

**LABORATORY**

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (mm/dd/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | Complete ONLY if Method is CT, CF, D-T, or D-F: End Date (mm/dd/yyyy) | Complete ONLY if Method is CT, CF, D-T, or D-F: End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. | FF | ANALYSIS* | MLA-110 | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIELDQC | 392789107055 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-1 | 1 |
| FIELDQC | 392789107066 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-2 | 2 |
| FIELDQC | 392789107088 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-3 | 3 |
| FIELDQC | 392789107114 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-4 | 4 |
| FIELDQC | 392789107077 | QC-TB | 30/04/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-5 | 5 |
| FIELDQC | 392789107103 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-6 | 6 |
| FIELDQC | 392789107125 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-7 | 7 |
| FIELDQC | 392789107099 | QC-TB | 30/04/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | | x | L33068-8 | 8 |
| FIELDQC | EQ-DIPPER-01-051220 | QC-EB | 12/05/2020 | 1300 | | | | G | | | NW | | QC-BLANK | | | 2 | | | | x | L33068-9 | 9 |
| FIELDQC | EQ-HOSECLAMP-01-051220 | QC-EB | 12/05/2020 | 1245 | | | | G | | | NW | | QC-BLANK | | | 2 | | | | x | L33068-10 | 10 |
| FIELDQC | EQ-ZIPLOCK-01-051220 | QC-EB | 12/05/2020 | 1230 | | | | G | | | NW | | QC-BLANK | | | 2 | | | | x | L33068-11 | 11 |
| FIELDQC | EQ-SHOVEL-01-051220 | QC-EB | 12/05/2020 | 1315 | | | | G | | | NW | | QC-BLANK | | | 2 | | | | x | L33068-12 | 12 |
| FIELDQC | EQ-AUGER-01-051220 | QC-EB | 12/05/2020 | 1330 | | | | G | | | NW | | QC-BLANK | | | 2 | | | | x | L33068-13 | 13 |
| FIELDQC | EQ-PAIL-01-051220 | QC-EB | 12/05/2020 | 1345 | | | | G | | | NW | | QC-BLANK | | | 2 | | | | x | L33068-14 | 14 |
| S016-051 | RC3-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-15 | 15 |
| S016-061 | RC12-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1800 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-16 | 16 |
| S016-063 | RC14-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1830 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-17 | 17 |
| S016-280 | RC21-WAT-BULK-01-042820 | Sample | 05/05/2020 | 1900 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-18 | 18 |
| S016-051 | RC3-WAT-BULK-01-042920 | Sample | 05/05/2020 | 0900 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-19 | 19 |
| S016-054 | RC7-WAT-BULK-01-042920 | Sample | 23/04/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-20 | 20 |
| S016-061 | RC12-WAT-BULK-01-042920 | Sample | 23/04/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-21 | 21 |
| S016-063 | RC14-WAT-BULK-01-042920 | Sample | 05/05/2020 | 1145 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-22 | 22 |
| S016-280 | RC21-WAT-BULK-01-042920 | Sample | 05/05/2020 | 1130 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-23 | 23 |
| S016-234 | EP16-WAT-BULK-01-042920 | Sample | 24/04/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-24 | 24 |
| 82-0109-00-453 | EP19-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1445 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-25 | 25 |
| 82-0109-00-454 | EP20-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1345 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-26 | 26 |
| S016-071 | WL6-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1600 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-27 | 27 |
| PS00168 | WL9-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1630 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-28 | 28 |
| PS00169 | WL12-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-29 | 29 |
| PS00171 | WL15-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-30 | 30 |
| S016-281 | VB1-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1740 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-31 | 31 |
| S016-051 | RC3-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-32 | 32 |
| 82-0109-00-209 | EP4-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1455 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-33 | 33 |
| 82-0109-00-453 | EP19-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-34 | 34 |
| 82-0111-00-201 | BP1-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-35 | 35 |
| S016-281 | VB1-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-36 | 36 |
| S016-282 | VB2-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1145 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-37 | 37 |
| S016-316 | VB3-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1300 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | | x | L33068-38 | 38 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-189 | RC5-WAT-BULK-02-050420 | QC-FR | 04/05/2020 | 1200 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-39 | 39 |
| S016-189 | RC5-WAT-BULK-03-050420 | QC-FR | 04/05/2020 | 1205 | | | | G | | | NW | | Wtr-Surf | | MS/MSD | 8 | | x | L33068-40 | 40 |
| S016-067 | RC17-WAT-BULK-01-050520 | Sample | 05/05/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-41 | 41 |
| S016-339 | RC18A-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-42 | 42 |
| S016-339 | RC18A-WAT-SML-01-050520 | Sample | 05/05/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-43 | 43 |
| 82-0109-00-208 | RC18-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-44 | 44 |
| S016-315 | FC1-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1130 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-45 | 45 |
| 82-0106-00-303 | EP21-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1455 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-46 | 46 |
| S016-074 | WL11-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1125 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-47 | 47 |
| PS00171 | WL15-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1235 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-48 | 48 |
| S016-071 | WL6-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1500 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-49 | 49 |
| S016-072 | WL7-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1320 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-50 | 50 |
| S016-072 | WL7-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1325 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-51 | 51 |
| S016-072 | WL7-WAT-BULK-03-050720 | QC-FR | 07/05/2020 | 1330 | | | | G | | | NW | | Wtr-Surf | | MS/MSD | 8 | | x | L33068-52 | 52 |
| PS00168 | WL9-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-53 | 53 |
| PS00168 | WL9-WAT-EPI-01-050720 | Sample | 07/05/2020 | 1100 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-54 | 54 |
| PS00168 | WL9-WAT-SML-01-050720 | Sample | 07/05/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-55 | 55 |
| PS00169 | WL12-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1200 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-56 | 56 |
| PS00169 | WL12-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1210 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-57 | 57 |
| S016-314 | RC16A-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1610 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-58 | 58 |
| S016-063 | RC14-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1245 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-59 | 59 |
| S016-280 | RC21-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1215 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-60 | 60 |
| S016-280 | RC21-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1220 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-61 | 61 |
| 82-0109-00-454 | EP20-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1435 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-62 | 62 |
| 82-0109-00-454 | EP20-WAT-EPI-01-050720 | Sample | 07/05/2020 | 1430 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-63 | 63 |
| 82-0109-00-454 | EP20-WAT-SML-01-050720 | Sample | 07/05/2020 | 1400 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-64 | 64 |
| 82-0106-00-302 | EP23-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1715 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-65 | 65 |
| 82-0106-00-302 | EP23-WAT-SML-01-050720 | Sample | 07/05/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-66 | 66 |
| 82-0107-00-204 | EP24-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1710 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-67 | 67 |
| 82-0107-00-204 | EP24-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1720 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-68 | 68 |
| S016-054 | RC7-WAT-BULK-01-050820 | Sample | 08/05/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-69 | 69 |
| S016-276 | RC20-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1405 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-70 | 70 |
| 82-0109-00-211 | EP8-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1310 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-71 | 71 |
| SS00087 | WL18-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1115 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-72 | 72 |
| 82-0109-00-452 | EP17-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1100 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-73 | 73 |
| 82-0107-00-205 | EP25-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1230 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-74 | 74 |
| 82-0106-00-303 | EP21-WAT-SML-01-042420 | Sample | 24/04/2020 | 1515 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-75 | 75 |

| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |
| **Receiving Comments:** | | | |

| **Relinquished By/Affiliation** | **Date/Time** | **Accepted By/Affiliation** | **Date/Time** |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

ORIGIN ID:SYNA (612) 376-2452
Amanda Canning
Aecom
800 LaSalle ave S
Suite 1100
MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 12MAY20
TOTWGT: 436.85 LB
CAD: 6990377/SSF02110

DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

TO **Sample Receiving**
**SGS AXYS ANALYTICAL**
**2045 W MILLS RD**

**SIDNEY, BC V8L5X2**
**CANADA, CA**

(250) 655-5831

FedEx Express

**(CA)**

**AWB**

**XQ YYJA**

**AHS**
**PKG:YOUR PKG**

TRK# **3927 8910 7055**
**1 of 8**

Form
0430

**AM**
**INTL PRIORITY**

REF: 60608807-P1007
DESC1:SAMPLES - 30-60 samples, in each cooler, of water in plastic
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 1120.00 USD
CUSTOMS VALUE: 1120.00 USD

SIGN: Amanda Canning
T/C: 0 141083937
D/T: R

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

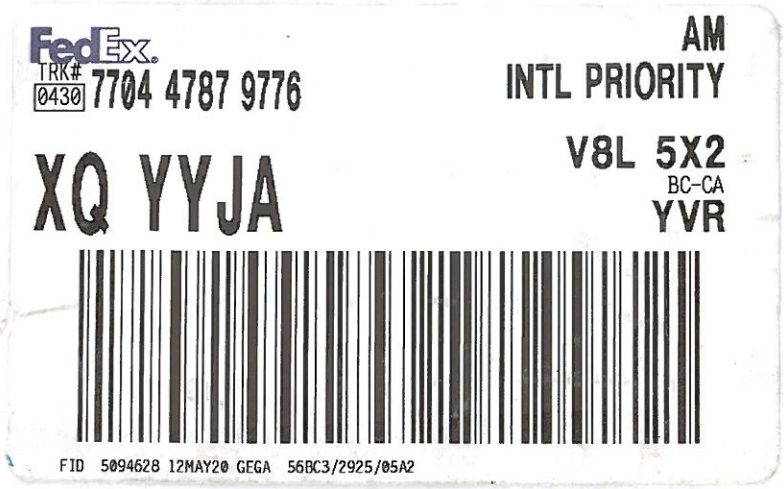
**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:25
5730
Bags wet ice, melting
9.0°C

RECEIVED
MAY 13 2020

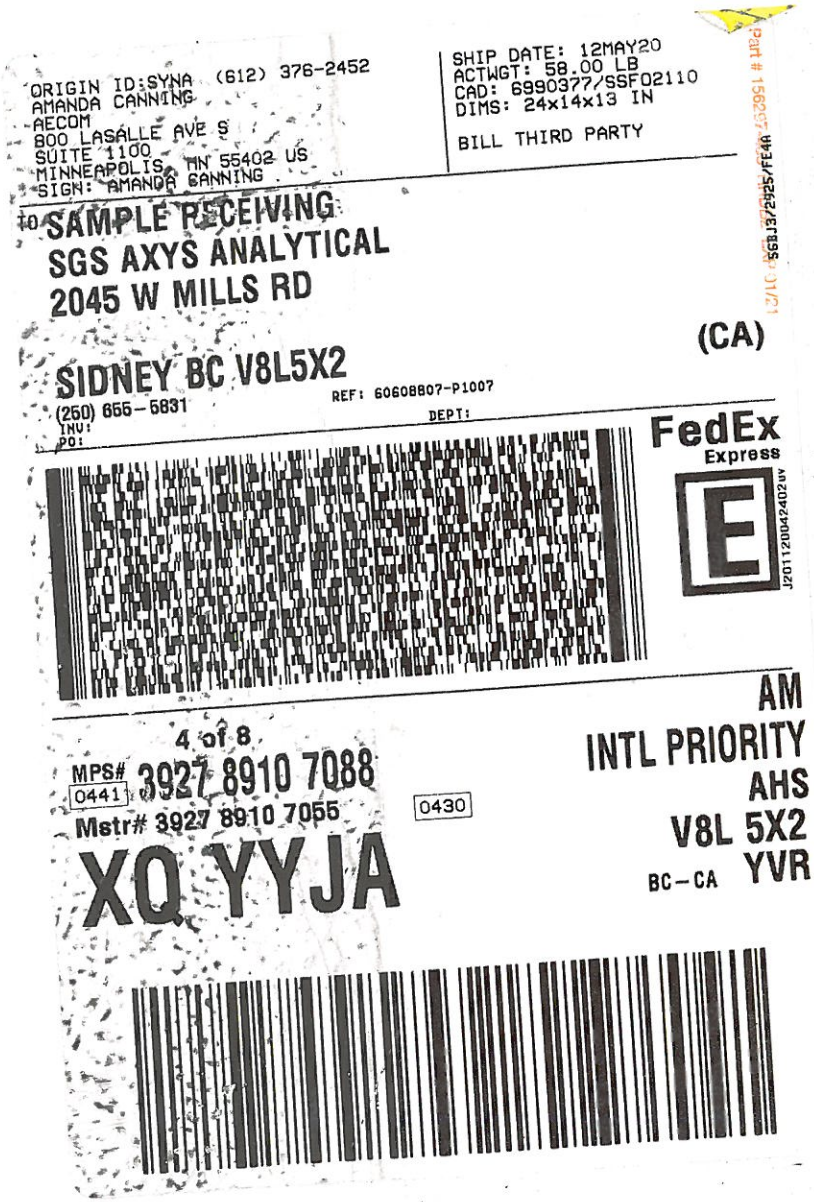
4095

WB27466




10:25
5726
3.3
Bags wet
ice, melting

4095



ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 58.00 LB
CAD: 6990377/SSFO2110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831
REF: 60608807-P1007
INV:
PO:
DEPT:

FedEx Express

J2011200424O2uv

4 of 8
MPS# 3927 8910 7088
0441
Mstr# 3927 8910 7055
0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

WB27470

10:25

RECEIVED
MAY 13 2020
Jennifer Carlson

bagged wet ice
melting
7.9°C
5711

4095

WB27471

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 61.00 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

Part # 156297-[illegible] 5GBJ3/2925/FE4A

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:

FedEx Express

J201120042402uv

MPS# 0441 7 of 8 3927 8910 7114
Mstr# 3927 8910 7055 0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

RECEIVED
MAY 13 2020
Jennifer Carlson

10:25

5728

Bags wet ice, melting

TB present

5.9°C

4095

WB27472

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 55.15 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-6831
INV:
PO: REF: 60608807-P1007
DEPT:

FedEx Express

3 of 8
MPS# 0441 3927 8910 7077
Mstr# 3927 8910 7055
0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

10:25
RECEIVED
MAY 13 2020
Jennifer Carlson

bagged wet ice melting
7.8°C
5740

4095

WB27473

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 50.45 LB
CAD: 6990377/SSFO2110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831 REF: 60608807-P1007
INV:
PO: DEPT:

FedEx Express

6 of 8
MPS# 0441 3927 8910 7103
Mstr# 3927 8910 7055 0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

RECEIVED
MAY 13 2020
Jenifer Carlson

8.9°C
5745
Bags wet ice, melted
10:25

4095

W327474

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 57.90 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:
(CA)

FedEx Express

8 of 8
MPS# 0441 3927 8910 7125
Mstr# 3927 8910 7055
0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

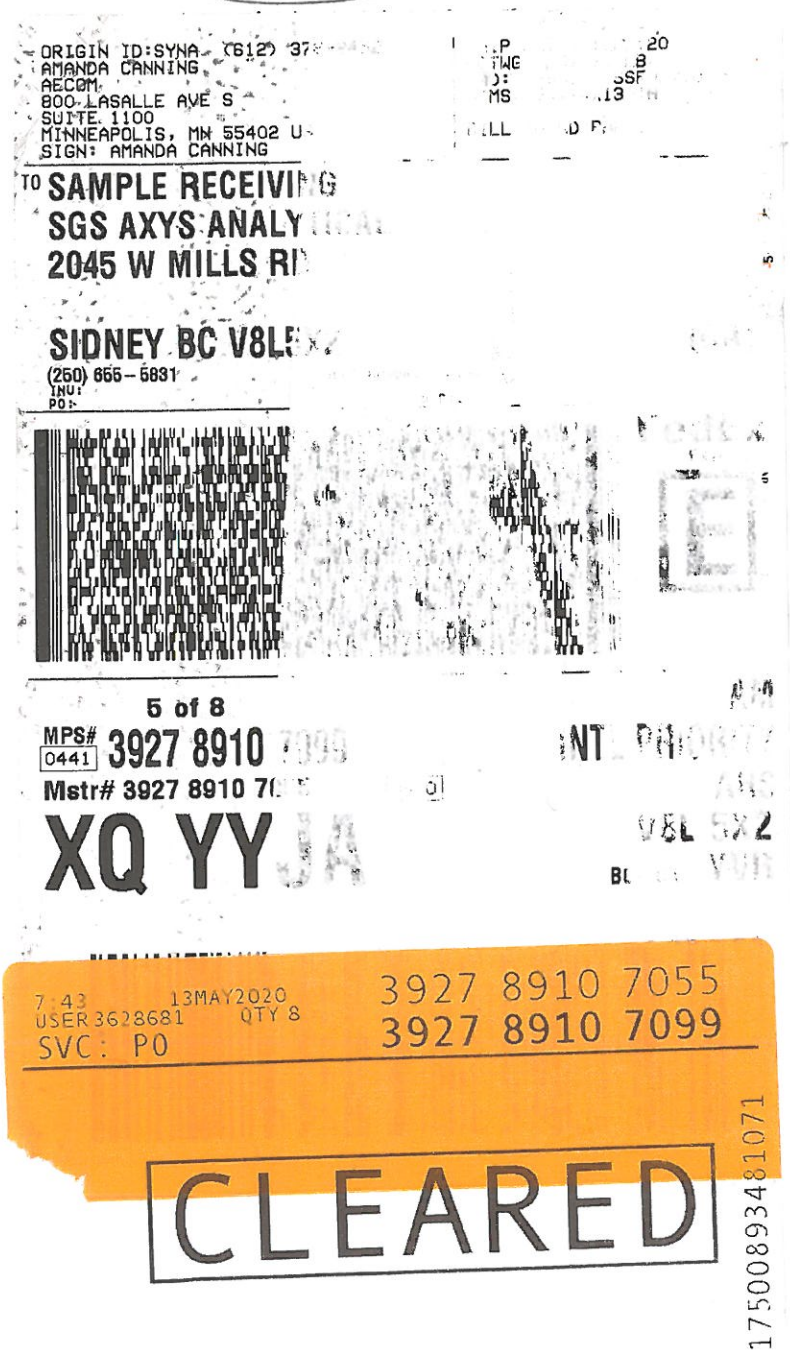
1

RECEIVED
MAY 13 2020

10:25
Bags wet icey melting
5729
7.2°C

4095

WB27475




10:25

RECEIVED
MAY 13 2020
Jennifer Carlsen

bagged wet ice
melting
6.5°C
S713

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107055
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27465

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-1, -15 to -23

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 9 Celcius bags wet ice, melting

Thermometer ID: 5730
Corrected Temperature: 8.8 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No — Samples logged in as per previous submissions Yes /No
- Information Agrees Yes /No — Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No
If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

DPR 03-Jun-20

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: ~~392752798931~~ 392789107066
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27466

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-2, -39, -40, -75 L33069-2 to -9 L33071-1

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 3.3 Celcius bags wet ice, melting

Thermometer ID: 5726

Corrected Temperature: 3.3 Celcius

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No
If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107088
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27470

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: BGENDIVE Signature:

Axys Sample ID's: A33068-3, -49 to -57

Matrix Type: aq

Thermometer ID: 5711

Condition of Shipping Container: Intact

Corrected Temperature: 7.8 Celcius

Temperature upon Receipt: 7.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

| Custody Seals: | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Shipping Containers | Yes /No | Intact Yes /No | Seal Numbers Yes /No | Signature and Date | Yes /No |
| | Samples | Yes /No | Intact Yes /No | Seal Numbers Yes /No | Signature and Date | Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107114
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27471

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDINE Signature:

Axys Sample ID's: L33068-4, -9 to -12, -32 to -38

Matrix Type: aq

Condition of Shipping Container: Intact

Temperature upon Receipt: 5.9 Celcius bagged wet ice melting

Thermometer ID: 5728
Corrected Temperature: 5.7 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No
Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
Sample ID's Yes /No
Collection Location Yes /No
Date & Time Collection Yes /No
Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
Sample Tag Numbers Yes /No
Sample Type Yes /No
Preservative Added Prior to Receipt Yes /No
Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107077
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27472

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-58 to -68

Matrix Type: aq

Thermometer ID: 5740

Condition of Shipping Container: Intact

Corrected Temperature: 7.5 Celcius

Temperature upon Receipt: 7.8 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

TRIP BLANK NOT RECEIVED (L33068-5)

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107103
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27473

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENTILE Signature:

Axys Sample ID's: L33068-60, -41 to -48

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5745

Corrected Temperature: 8.7 Celcius

Temperature upon Receipt: 8.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107125
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27474

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDILLE Signature:

Axys Sample ID's: L33068-7, -13, -14, -69 to -74 L33071-2

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5729

Corrected Temperature: 7.2 Celcius

Temperature upon Receipt: 7.2 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107099
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27475

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE

Signature:

Axys Sample ID's: L33068-8, -24 to -31

Matrix Type: aq

Condition of Shipping Container: Intact

Temperature upon Receipt: 6.5 Celcius bagged wet ice melting

Thermometer ID: 5713
Corrected Temperature: 6.4 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No
Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
Sample ID's Yes /No
Collection Location Yes /No
Date & Time Collection Yes /No
Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
Sample Tag Numbers Yes /No
Sample Type Yes /No
Preservative Added Prior to Receipt Yes /No
Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

*Checked 08-Jun-20 DPR*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-1** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107055 | FIELDQC | | | |
| 30-APR-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33068-2** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107066 | FIELDQC | | | |
| 12-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33068-3** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107088 | FIELDQC | | | |
| 12-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33068-4** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107114 | FIELDQC | | | |
| 04-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | | **Received** | **Due** | **PR** |
|---|---|---|---|---|---|
| **L33068-5** | | | 13-MAY-20 | | |
| 392789107077<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| Comments: Trip blank sample not received | | | | | |
| **L33068-6** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107103<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |
| **L33068-7** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107125<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |
| **L33068-8** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107099<br>30-APR-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33068-9** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-DIPPER-01-051220<br>12-MAY-20 13:00 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-10** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-HOSECLAMP-01-051220<br>12-MAY-20 12:45 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-11** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-ZIPLOCK-01-051220<br>12-MAY-20 12:30 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

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**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33068-12** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-SHOVEL-01-051220<br>12-MAY-20 13:15 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-13** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-AUGER-01-051220<br>12-MAY-20 13:30 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-14** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-PAIL-01-051220<br>12-MAY-20 13:45 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-15** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-042820<br>28-APR-20 17:30 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-16** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC12-WAT-BULK-01-042820<br>28-APR-20 18:00 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-17** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-042820<br>28-APR-20 18:30 | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-18** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-042820 | S016-280 | | | |
| 28-APR-20 19:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-19** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-042920 | S016-051 | | | |
| 29-APR-09 09:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-20** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC7-WAT-BULK-01-042920 | S016-054 | | | |
| 29-APR-09 09:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-21** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC12-WAT-BULK-01-042920 | S016-061 | | | |
| 29-APR-09 10:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-22** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-042920 | S016-063 | | | |
| 29-APR-09 11:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-23** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-042920 | S016-280 | | | |
| 29-APR-09 11:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-24** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP16-WAT-BULK-01-042920<br>29-APR-09 15:30 | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-25** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP19-WAT-BULK-01-042920<br>29-APR-09 14:45 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-26** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-BULK-01-042920<br>29-APR-09 13:45 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-27** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL6-WAT-BULK-01-042920 | S016-071 | | | |
| 29-APR-09 16:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-28** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-BULK-01-042920 | PS00168 | | | |
| 29-APR-09 16:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-29** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-01-042920 | PS00169 | | | |
| 29-APR-09 17:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-30** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL15-WAT-BULK-01-042920<br>29-APR-09 17:30 | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-31** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB1-WAT-BULK-01-042920<br>29-APR-09 17:40 | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-32** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-050420<br>04-MAY-20 10:45 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-33** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP4-WAT-BULK-01-050420<br>04-MAY-20 14:55 | 82-0109-00-209<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-34** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP19-WAT-BULK-01-050420<br>04-MAY-20 15:30 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-35** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| BP1-WAT-BULK-01-050420<br>04-MAY-20 15:30 | 82-0111-00-201<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-36** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB1-WAT-BULK-01-050420<br>04-MAY-20 10:45 | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-37** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB2-WAT-BULK-01-050420<br>04-MAY-20 11:45 | S016-282<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-38** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB3-WAT-BULK-01-050420<br>04-MAY-20 13:00 | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-39** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC5-WAT-BULK-02-050420<br>04-MAY-20 12:00 | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-40** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC5-WAT-BULK-03-050420<br>04-MAY-20 12:05 | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| Comments: requires MS/MSD | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33068-41** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC17-WAT-BULK-01-050520<br>05-MAY-20 09:45 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-42** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18A-WAT-BULK-01-050520<br>05-MAY-20 17:30 | S016-339<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-43** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18A-WAT-SML-01-050520<br>05-MAY-20 17:00 | S016-339<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-44** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18-WAT-BULK-01-050520<br>05-MAY-20 10:30 | 82-0109-00-208<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-45** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| FC1-WAT-BULK-01-050520<br>05-MAY-20 11:30 | S016-315<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-46** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP21-WAT-BULK-01-050520<br>05-MAY-20 14:55 | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-47** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL11-WAT-BULK-01-050520<br>05-MAY-20 11:25 | S016-074<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-48** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL15-WAT-BULK-01-050520<br>05-MAY-20 12:35 | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-49** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL6-WAT-BULK-01-050720<br>07-MAY-20 15:00 | S016-071<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-50** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-01-050720<br>07-MAY-20 13:20 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-51** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-02-050720<br>07-MAY-20 13:25 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-52** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-03-050720<br>07-MAY-20 13:30 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| Comments: requires MS/MSD | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33068-53** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-BULK-01-050720<br>07-MAY-20 10:45 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-54** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-EPI-01-050720<br>07-MAY-20 11:00 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-55** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-SML-01-050720<br>07-MAY-20 10:30 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-56** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-01-050720<br>07-MAY-20 12:00 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-57** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-02-050720<br>07-MAY-20 12:10 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-58** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC16A-WAT-BULK-01-050720<br>07-MAY-20 16:10 | S016-314<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-59** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-050720<br>07-MAY-20 12:45 | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-60** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-050720<br>07-MAY-20 12:15 | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-61** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-02-050720<br>07-MAY-20 12:20 | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-62** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-BULK-01-050720<br>07-MAY-20 14:35 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-63** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-EPI-01-050720<br>07-MAY-20 14:30 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-64** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-SML-01-050720<br>07-MAY-20 14:00 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-65** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP23-WAT-BULK-01-050720<br>07-MAY-20 17:15 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-66** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP23-WAT-SML-01-050720<br>07-MAY-20 17:00 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-67** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP24-WAT-BULK-01-050720<br>07-MAY-20 17:10 | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-68** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP24-WAT-BULK-02-050820<br>08-MAY-20 09:00 | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-69** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC7-WAT-BULK-01-050820<br>08-MAY-20 09:45 | S016-054<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-70** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC20-WAT-BULK-01-050820<br>08-MAY-20 14:05 | S016-276<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-71** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP8-WAT-BULK-01-050820<br>08-MAY-20 13:10 | 82-0109-00-211<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-72** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL18-WAT-BULK-01-050820<br>08-MAY-20 11:15 | SS00087<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-73** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP17-WAT-BULK-01-051120<br>11-MAY-20 11:00 | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-74** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP25-WAT-BULK-01-051120<br>11-MAY-20 12:30 | 82-0107-00-205<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-75** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP21-WAT-SML-01-042420<br>24-APR-20 15:15 | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

4085
15 May 2020
RTG/JTC

WB27465

L33068-1, -15 to -23

WB27466

L33068-2, -40, -39, -75

L33069-2 to -9

L33071-1, ~~-2~~ RTG

WB27470

L33068-3, 52, 49, 50, 52, 55, 53, 51, 57, 56, 54.

WB27471

L33068-4, -9 to -12,

-32 to -38, ~~-37, -39~~

4095
15MAY2020
RTG/ JTC

WB27472

L33068-~~X~~

RTG 15MAY2020

L33068-5
392789107077
4095
Not Received

1/1

WB27473

L33068-6, 47, 45, 46, 44, 42, 41, 48, 43
(-41 to -48)

WB27474

L33068-7, 13, 14, -69 to -72, -73, -74

L33068-58, 60, 61, 68, 62, 59, 66, 64, 65, 67, 63
(-58 to -68)

L33071-2

WB27475

L33068-8, -24 to -31
L33069-1

| Contract: 4095 | Date: 28-May-2020 | Initials: |
|---|---|---|

| Axys ID | Client ID | | Sampling Date&Time | | Missing | Damaged Label | Other/Comments: |
|---|---|---|---|---|---|---|---|
| | COC | Client Label (if discrepancy) | COC | Client Label (if discrepancy) | | | |
| L33068-52 | WL7-WAT-BULK-01-050720 | WL7-WAT-BULK-03-050720 | 07/05/2020 1:30:00 PM | | | | Logged in per client label, as instructed by PM / email from client. |
| L33068-57 | WL12-WAT-BULK-01-050720 | WL12-WAT-BULK-02-050720 | 07/05/2020 12:10:00 PM | | | | |
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www.axysanalytical.com

4095

## Gendive, Rosemarie (Sidney)

**From:** Robinson, Dale (Sidney)
**Sent:** Thursday, May 14, 2020 11:36 AM
**To:** ca.axys.Sample.Receiving
**Subject:** 4095 sample labeling issue (2 of 2)
**Attachments:** Shipping_COC_392789107088_Originally812543331249_051220.pdf

And another one...

Cheers,
Dale Robinson

Dale Robinson, B.Sc.
**Environment, Health and Safety**
Project Manager

Direct Office: +1-250 655 5812
Main Phone: +1 250 655 5800
Toll Free: +1 888 373 0881

**From:** Lanning, Amanda <amanda.lanning@aecom.com>
**Sent:** Thursday, May 14, 2020 11:33 AM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Similarly, there are two WL12-WAT-BULK-01-050720 – the second one should be WL12-WAT-BULK-**02**-050720. Again, the bottle labels should be correct.

Sorry should be the last typo....

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

**From:** Lanning, Amanda
**Sent:** Thursday, May 14, 2020 1:30 PM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew (Andrew.Tarara@aecom.com) <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

Hi Dale,

4095

I just caught a typo in the COC for tracking number 392789107088. There are two WL7-WAT-BULK-01-050720 sample IDs; the second one, which is marked for the MS/MSD kit, should be WL7-WAT-BULK-03-050720. I am pretty sure the labels are correct on the physical bottles are correct. I have attached the marked up COC.

They will be correct on the supplementary chains as well, but I wanted to get this to you before a parent sample inadvertently gets spiked.

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

---

**From:** Lanning, Amanda
**Sent:** Wednesday, May 13, 2020 11:17 AM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew (Andrew.Tarara@aecom.com) <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

2 of 4

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

---

**From:** Lanning, Amanda
**Sent:** Wednesday, May 13, 2020 11:16 AM
**To:** 'Robinson, Dale (Sidney)' <Dale.Robinson@sgs.com>; 'Pillay, Kalai (Sidney)' <Kalai.Pillay@sgs.com>; 'Grace, Richard (Toronto)' <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

Email 1 of 4:

Hi all,

Attached (in multiple emails for file size restriction reasons) are the shipping documents and associated COCs. The tracking numbers are:

39278910 7055
39278910 7066
39278910 7077
39278910 7088
39278910 7099
39278910 7103
39278910 7114
39278910 7125

Dale, as you and I discussed, I would like to run sample RC18A-FOAM-OLD-01-050520 as both a solids and an aqueous sample, or whatever makes sense. That sample is on the chain associated with tracking number: 392789107066.

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 09:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-41 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.531 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:08:55 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 19** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 76.0 | 3.01 (L) | 1:52 |
| **PFPeA** | | 5.57 | 1.51 (L) | 4:25 |
| **PFHxA** | | 4.11 | 0.753 (L) | 5:01 |
| **PFHpA** | | 2.13 | 0.753 (L) | 5:29 |
| **PFOA** | | 6.52 | 0.753 (L) | |
| **PFNA** | U | | 0.753 (L) | |
| **PFDA** | U | | 0.753 (L) | |
| **PFUnA** | U | | 0.753 (L) | |
| **PFDoA** | U | | 0.753 (L) | |
| **PFTrDA** | U | | 0.753 (L) | |
| **PFTeDA** | U | | 0.753 (L) | |
| **PFBS** | | 2.25 | 0.753 (L) | 4:59 |
| **PFPeS** | U | | 0.753 (L) | |
| **PFHxS** | | 3.05 | 0.753 (L) | |
| **PFHpS** | U | | 0.753 (L) | |
| **PFOS** | | 3.12 | 0.753 (L) | |
| **PFNS** | U | | 0.753 (L) | |
| **PFDS** | U | | 0.753 (L) | |
| **PFDoS** | U | | 0.753 (L) | |
| **4:2 FTS** | U | | 3.01 (L) | |
| **6:2 FTS** | U | | 2.71 (L) | |
| **8:2 FTS** | U | | 3.01 (L) | |
| **PFOSA** | U | | 0.753 (L) | |
| **N-MeFOSA** | U | | 0.866 (L) | |
| **N-EtFOSA** | U | | 1.88 (L) | |
| **MeFOSAA** | U | | 0.753 (L) | |
| **EtFOSAA** | U | | 0.753 (L) | |
| **N-MeFOSE** | U | | 7.53 (L) | |
| **N-EtFOSE** | U | | 5.65 (L) | |
| **HFPO-DA** | U | | 2.86 (L) | |
| **ADONA** | U | | 3.01 (L) | |
| **9Cl-PF3ONS** | U | | 3.01 (L) | |
| **11Cl-PF3OUdS** | U | | 3.01 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-41_Form1A_FC0L_212S19_SJ2758828.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC17-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 09:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-41 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.531 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:08:55 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.7 | 84.3 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 92.1 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.23 | 92.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.09 | 90.9 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.55 | 85.5 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.18 | 83.7 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.72 | 94.4 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.40 | 88.0 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.02 | 80.5 | 8:09 |
| **13C2-PFTeDA** | | 5.00 | 3.15 | 63.0 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.03 | 90.3 | 4:59 |
| **13C3-PFHxS** | | 10.0 | 8.69 | 86.9 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.16 | 91.6 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 20.5 | 102 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.3 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 19.4 | 96.9 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.29 | 82.9 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.61 | 76.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.67 | 76.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.0 | 90.1 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 17.5 | 87.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 82.1 | 82.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 80.3 | 80.3 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 33.0 | 82.5 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-41_Form2_FC0L_212S19_SJ2758828.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC18A-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 17:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-42 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.530 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:22:00 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 20** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 74.4 | 3.02 (L) | 1:51 |
| **PFPeA** | | 5.58 | 1.51 (L) | 4:25 |
| **PFHxA** | | 4.13 | 0.755 (L) | 5:01 |
| **PFHpA** | | 1.96 | 0.755 (L) | 5:29 |
| **PFOA** | | 6.93 | 0.755 (L) | |
| **PFNA** | U | | 0.755 (L) | |
| **PFDA** | U | | 0.755 (L) | |
| **PFUnA** | U | | 0.755 (L) | |
| **PFDoA** | U | | 0.755 (L) | |
| **PFTrDA** | U | | 0.755 (L) | |
| **PFTeDA** | U | | 0.755 (L) | |
| **PFBS** | | 2.21 | 0.755 (L) | 4:58 |
| **PFPeS** | U | | 0.755 (L) | |
| **PFHxS** | | 3.24 | 0.755 (L) | |
| **PFHpS** | U | | 0.755 (L) | |
| **PFOS** | | 5.89 | 0.755 (L) | |
| **PFNS** | U | | 0.755 (L) | |
| **PFDS** | U | | 0.755 (L) | |
| **PFDoS** | U | | 0.755 (L) | |
| **4:2 FTS** | U | | 3.02 (L) | |
| **6:2 FTS** | U | | 2.72 (L) | |
| **8:2 FTS** | U | | 3.02 (L) | |
| **PFOSA** | U | | 0.755 (L) | |
| **N-MeFOSA** | U | | 0.868 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | U | | 0.755 (L) | |
| **EtFOSAA** | U | | 0.755 (L) | |
| **N-MeFOSE** | U | | 7.55 (L) | |
| **N-EtFOSE** | U | | 5.66 (L) | |
| **HFPO-DA** | U | | 2.87 (L) | |
| **ADONA** | U | | 3.02 (L) | |
| **9Cl-PF3ONS** | U | | 3.02 (L) | |
| **11Cl-PF3OUdS** | U | | 3.02 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-42_Form1A_FC0L_212S20_SJ2758829.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18A-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 17:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-42 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:22:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.2 | 82.9 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.4 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.28 | 92.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 7.98 | 79.8 | 5:29 |
| **13C8-PFOA** | | 10.0 | 7.93 | 79.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.23 | 84.6 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.41 | 88.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.60 | 92.0 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.29 | 85.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.32 | 66.4 | 8:51 |
| **13C3-PFBS** | | 10.0 | 8.86 | 88.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.59 | 85.9 | 6:18 |
| **13C8-PFOS** | | 10.0 | 8.83 | 88.3 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 19.6 | 97.8 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.3 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 18.7 | 93.7 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.25 | 82.5 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.89 | 68.9 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.78 | 67.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 17.5 | 87.3 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 17.2 | 85.8 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 79.9 | 79.9 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 79.9 | 79.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 33.6 | 83.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-42_Form2_FC0L_212S20_SJ2758829.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC18A-WAT-SML-01-050520**
**Sample Collection:**
**05-May-2020 17:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-43 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:34:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 84.2 | 3.09 (L) | 1:51 |
| **PFPeA** | | 6.10 | 1.55 (L) | 4:25 |
| **PFHxA** | | 4.38 | 0.773 (L) | 5:01 |
| **PFHpA** | | 1.99 | 0.773 (L) | 5:29 |
| **PFOA** | | 6.45 | 0.773 (L) | |
| **PFNA** | U | | 0.773 (L) | |
| **PFDA** | U | | 0.773 (L) | |
| **PFUnA** | U | | 0.773 (L) | |
| **PFDoA** | U | | 0.773 (L) | |
| **PFTrDA** | U | | 0.773 (L) | |
| **PFTeDA** | U | | 0.773 (L) | |
| **PFBS** | | 2.61 | 0.773 (L) | 4:58 |
| **PFPeS** | U | | 0.773 (L) | |
| **PFHxS** | | 2.84 | 0.773 (L) | |
| **PFHpS** | U | | 0.773 (L) | |
| **PFOS** | | 4.28 | 0.773 (L) | |
| **PFNS** | U | | 0.773 (L) | |
| **PFDS** | U | | 0.773 (L) | |
| **PFDoS** | U | | 0.773 (L) | |
| **4:2 FTS** | U | | 3.09 (L) | |
| **6:2 FTS** | U | | 2.78 (L) | |
| **8:2 FTS** | U | | 3.09 (L) | |
| **PFOSA** | U | | 0.773 (L) | |
| **N-MeFOSA** | U | | 0.889 (L) | |
| **N-EtFOSA** | U | | 1.93 (L) | |
| **MeFOSAA** | U | | 0.773 (L) | |
| **EtFOSAA** | U | | 0.773 (L) | |
| **N-MeFOSE** | U | | 7.73 (L) | |
| **N-EtFOSE** | U | | 5.80 (L) | |
| **HFPO-DA** | U | | 2.94 (L) | |
| **ADONA** | U | | 3.09 (L) | |
| **9Cl-PF3ONS** | U | | 3.09 (L) | |
| **11Cl-PF3OUdS** | U | | 3.09 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-43_Form1A_FC0L_212S21_SJ2758830.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18A-WAT-SML-01-050520**
**Sample Collection:**
**05-May-2020 17:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-43 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:34:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.3 | 83.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 92.1 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.91 | 89.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.25 | 82.5 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.29 | 82.9 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.09 | 81.7 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.60 | 91.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.26 | 85.2 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.38 | 87.6 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.33 | 66.6 | 8:51 |
| **13C3-PFBS** | | 10.0 | 8.74 | 87.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.40 | 84.0 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.60 | 96.0 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 20.6 | 103 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.4 | 82.0 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 18.4 | 91.9 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.66 | 86.6 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.28 | 72.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.99 | 79.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.2 | 90.8 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 17.3 | 86.4 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 83.9 | 83.9 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 86.7 | 86.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 32.2 | 80.4 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-43_Form2_FC0L_212S21_SJ2758830.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC18-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 10:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-44 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.526 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:48:03 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 22** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 82.3 | 3.04 (L) | 1:51 |
| **PFPeA** | | 6.10 | 1.52 (L) | 4:25 |
| **PFHxA** | | 4.42 | 0.760 (L) | 5:01 |
| **PFHpA** | | 2.14 | 0.760 (L) | 5:29 |
| **PFOA** | | 6.85 | 0.760 (L) | |
| **PFNA** | U | | 0.760 (L) | |
| **PFDA** | U | | 0.760 (L) | |
| **PFUnA** | U | | 0.760 (L) | |
| **PFDoA** | U | | 0.760 (L) | |
| **PFTrDA** | U | | 0.760 (L) | |
| **PFTeDA** | U | | 0.760 (L) | |
| **PFBS** | | 2.63 | 0.760 (L) | 4:58 |
| **PFPeS** | U | | 0.760 (L) | |
| **PFHxS** | | 3.14 | 0.760 (L) | |
| **PFHpS** | U | | 0.760 (L) | |
| **PFOS** | | 3.79 | 0.760 (L) | |
| **PFNS** | U | | 0.760 (L) | |
| **PFDS** | U | | 0.760 (L) | |
| **PFDoS** | U | | 0.760 (L) | |
| **4:2 FTS** | U | | 3.04 (L) | |
| **6:2 FTS** | U | | 2.74 (L) | |
| **8:2 FTS** | U | | 3.04 (L) | |
| **PFOSA** | U | | 0.760 (L) | |
| **N-MeFOSA** | U | | 0.874 (L) | |
| **N-EtFOSA** | U | | 1.90 (L) | |
| **MeFOSAA** | U | | 0.760 (L) | |
| **EtFOSAA** | U | | 0.760 (L) | |
| **N-MeFOSE** | U | | 7.60 (L) | |
| **N-EtFOSE** | U | | 5.70 (L) | |
| **HFPO-DA** | U | | 2.89 (L) | |
| **ADONA** | U | | 3.04 (L) | |
| **9Cl-PF3ONS** | U | | 3.04 (L) | |
| **11Cl-PF3OUdS** | U | | 3.04 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-44_Form1A_FC0L_212S22_SJ2758831.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 10:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-44 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.526 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 21:48:03 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.5 | 81.1 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.2 | 90.8 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.20 | 92.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.44 | 84.4 | 5:29 |
| **13C8-PFOA** | | 10.0 | 7.88 | 78.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 3.97 | 79.3 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.26 | 85.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.16 | 83.1 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 3.75 | 75.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.11 | 62.2 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.00 | 90.0 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.30 | 83.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.33 | 93.3 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 20.4 | 102 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.7 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 19.1 | 95.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.29 | 82.9 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.84 | 68.4 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.93 | 69.3 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.0 | 90.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.4 | 87.1 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 80.9 | 80.9 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 79.0 | 79.0 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 32.5 | 81.4 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-44_Form2_FC0L_212S22_SJ2758831.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**FC1-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 11:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-45 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.535 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:00:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 193 | 2.99 (L) | 1:51 |
| **PFPeA** | | 9.02 | 1.50 (L) | 4:25 |
| **PFHxA** | | 6.18 | 0.748 (L) | 5:01 |
| **PFHpA** | | 2.07 | 0.748 (L) | 5:29 |
| **PFOA** | | 9.99 | 0.748 (L) | |
| **PFNA** | U | | 0.748 (L) | |
| **PFDA** | U | | 0.748 (L) | |
| **PFUnA** | U | | 0.748 (L) | |
| **PFDoA** | U | | 0.748 (L) | |
| **PFTrDA** | U | | 0.748 (L) | |
| **PFTeDA** | U | | 0.748 (L) | |
| **PFBS** | | 3.92 | 0.748 (L) | 4:58 |
| **PFPeS** | U | | 0.748 (L) | |
| **PFHxS** | | 2.54 | 0.748 (L) | |
| **PFHpS** | U | | 0.748 (L) | |
| **PFOS** | | 4.15 | 0.748 (L) | |
| **PFNS** | U | | 0.748 (L) | |
| **PFDS** | U | | 0.748 (L) | |
| **PFDoS** | U | | 0.748 (L) | |
| **4:2 FTS** | U | | 2.99 (L) | |
| **6:2 FTS** | U | | 2.69 (L) | |
| **8:2 FTS** | U | | 2.99 (L) | |
| **PFOSA** | U | | 0.748 (L) | |
| **N-MeFOSA** | U | | 0.860 (L) | |
| **N-EtFOSA** | U | | 1.87 (L) | |
| **MeFOSAA** | U | | 0.748 (L) | |
| **EtFOSAA** | U | | 0.748 (L) | |
| **N-MeFOSE** | U | | 7.48 (L) | |
| **N-EtFOSE** | U | | 5.61 (L) | |
| **HFPO-DA** | U | | 2.84 (L) | |
| **ADONA** | U | | 2.99 (L) | |
| **9Cl-PF3ONS** | U | | 2.99 (L) | |
| **11Cl-PF3OUdS** | U | | 2.99 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-45_Form1A_FC0L_212S23_SJ2758832.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**FC1-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-45 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.535 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:00:59 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.0 | 90.1 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.1 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.39 | 93.9 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.33 | 93.3 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.90 | 89.0 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.77 | 95.3 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.72 | 94.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.61 | 92.2 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.40 | 88.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.28 | 65.6 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.2 | 102 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.59 | 95.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.53 | 95.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.7 | 109 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.4 | 92.0 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 20.7 | 103 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.68 | 86.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.61 | 76.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.43 | 74.3 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 100 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.7 | 93.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 83.1 | 83.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 82.9 | 82.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 39.2 | 97.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-45_Form2_FC0L_212S23_SJ2758832.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 14:55**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-46 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.515 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:14:05 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 24** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 814 | 3.11 (L) | 1:51 |
| **PFPeA** | | 16.4 | 1.55 (L) | 4:25 |
| **PFHxA** | | 16.1 | 0.776 (L) | 5:01 |
| **PFHpA** | | 5.66 | 0.776 (L) | 5:29 |
| **PFOA** | | 65.0 | 0.776 (L) | |
| **PFNA** | U | | 0.776 (L) | |
| **PFDA** | U | | 0.776 (L) | |
| **PFUnA** | U | | 0.776 (L) | |
| **PFDoA** | U | | 0.776 (L) | |
| **PFTrDA** | U | | 0.776 (L) | |
| **PFTeDA** | U | | 0.776 (L) | |
| **PFBS** | | 3.14 | 0.776 (L) | 4:58 |
| **PFPeS** | | 2.19 | 0.776 (L) | 5:30 |
| **PFHxS** | | 6.85 | 0.776 (L) | |
| **PFHpS** | J | 0.840 | 0.776 (L) | 7:09 |
| **PFOS** | | 77.7 | 0.776 (L) | |
| **PFNS** | U | | 0.776 (L) | |
| **PFDS** | U | | 0.776 (L) | |
| **PFDoS** | U | | 0.776 (L) | |
| **4:2 FTS** | U | | 3.11 (L) | |
| **6:2 FTS** | U | | 2.80 (L) | |
| **8:2 FTS** | U | | 3.11 (L) | |
| **PFOSA** | U | | 0.776 (L) | |
| **N-MeFOSA** | U | | 0.893 (L) | |
| **N-EtFOSA** | U | | 1.94 (L) | |
| **MeFOSAA** | U | | 0.776 (L) | |
| **EtFOSAA** | U | | 0.776 (L) | |
| **N-MeFOSE** | U | | 7.76 (L) | |
| **N-EtFOSE** | U | | 5.82 (L) | |
| **HFPO-DA** | U | | 2.95 (L) | |
| **ADONA** | U | | 3.11 (L) | |
| **9Cl-PF3ONS** | U | | 3.11 (L) | |
| **11Cl-PF3OUdS** | U | | 3.11 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-46_Form1A_FC0L_212S24_SJ2758833.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 14:55**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-46 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.515 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:14:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.0 | 87.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 100 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.45 | 94.5 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.97 | 89.7 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.68 | 86.8 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.32 | 86.5 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.66 | 93.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.65 | 93.1 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.50 | 90.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.33 | 66.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.37 | 93.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.00 | 90.0 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.67 | 96.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.2 | 95.8 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.8 | 94.0 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 20.9 | 104 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.57 | 85.7 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.57 | 75.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.49 | 74.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.9 | 94.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.0 | 95.0 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 85.9 | 85.9 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 84.3 | 84.3 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 37.0 | 92.6 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-46_Form2_FC0L_212S24_SJ2758833.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL11-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 11:25**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-47 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:27:02 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 388 | 3.02 (L) | 1:50 |
| **PFPeA** | | 12.7 | 1.51 (L) | 4:25 |
| **PFHxA** | | 15.8 | 0.755 (L) | 5:01 |
| **PFHpA** | | 10.0 | 0.755 (L) | 5:29 |
| **PFOA** | | 84.6 | 0.755 (L) | |
| **PFNA** | J | 0.806 | 0.755 (L) | |
| **PFDA** | U | | 0.755 (L) | |
| **PFUnA** | U | | 0.755 (L) | |
| **PFDoA** | U | | 0.755 (L) | |
| **PFTrDA** | U | | 0.755 (L) | |
| **PFTeDA** | U | | 0.755 (L) | |
| **PFBS** | | 4.67 | 0.755 (L) | 4:59 |
| **PFPeS** | | 3.59 | 0.755 (L) | 5:30 |
| **PFHxS** | | 10.9 | 0.755 (L) | |
| **PFHpS** | | 1.83 | 0.755 (L) | 7:09 |
| **PFOS** | | 136 | 0.755 (L) | |
| **PFNS** | U | | 0.755 (L) | |
| **PFDS** | U | | 0.755 (L) | |
| **PFDoS** | U | | 0.755 (L) | |
| **4:2 FTS** | U | | 3.02 (L) | |
| **6:2 FTS** | U | | 2.72 (L) | |
| **8:2 FTS** | U | | 3.02 (L) | |
| **PFOSA** | U | | 0.755 (L) | |
| **N-MeFOSA** | U | | 0.869 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | U | | 0.755 (L) | |
| **EtFOSAA** | U | | 0.755 (L) | |
| **N-MeFOSE** | U | | 7.55 (L) | |
| **N-EtFOSE** | U | | 5.67 (L) | |
| **HFPO-DA** | U | | 2.87 (L) | |
| **ADONA** | U | | 3.02 (L) | |
| **9Cl-PF3ONS** | U | | 3.02 (L) | |
| **11Cl-PF3OUdS** | U | | 3.02 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-47_Form1A_FC0L_212S25_SJ2758834.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL11-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 11:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-47 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:27:02 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.9 | 89.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.9 | 104 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.73 | 97.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.08 | 90.8 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.99 | 89.9 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.42 | 88.4 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.94 | 98.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.73 | 94.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.49 | 89.9 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.46 | 69.3 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.80 | 98.0 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.55 | 95.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.64 | 96.4 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.9 | 109 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.2 | 91.0 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 21.0 | 105 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.16 | 91.6 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.12 | 81.2 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.49 | 84.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.7 | 98.3 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.0 | 100 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 90.5 | 90.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 91.9 | 91.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 35.9 | 89.8 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-47_Form2_FC0L_212S25_SJ2758834.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 12:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-48 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.526 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:40:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 390 | 3.04 (L) | 1:51 |
| **PFPeA** | | 12.8 | 1.52 (L) | 4:25 |
| **PFHxA** | | 15.4 | 0.760 (L) | 5:01 |
| **PFHpA** | | 9.87 | 0.760 (L) | 5:29 |
| **PFOA** | | 86.0 | 0.760 (L) | |
| **PFNA** | J | 0.893 | 0.760 (L) | |
| **PFDA** | U | | 0.760 (L) | |
| **PFUnA** | U | | 0.760 (L) | |
| **PFDoA** | U | | 0.760 (L) | |
| **PFTrDA** | U | | 0.760 (L) | |
| **PFTeDA** | U | | 0.760 (L) | |
| **PFBS** | | 4.53 | 0.760 (L) | 4:58 |
| **PFPeS** | | 3.51 | 0.760 (L) | 5:30 |
| **PFHxS** | | 11.1 | 0.760 (L) | |
| **PFHpS** | | 1.75 | 0.760 (L) | 7:09 |
| **PFOS** | | 132 | 0.760 (L) | |
| **PFNS** | U | | 0.760 (L) | |
| **PFDS** | U | | 0.760 (L) | |
| **PFDoS** | U | | 0.760 (L) | |
| **4:2 FTS** | U | | 3.04 (L) | |
| **6:2 FTS** | U | | 2.74 (L) | |
| **8:2 FTS** | U | | 3.04 (L) | |
| **PFOSA** | U | | 0.760 (L) | |
| **N-MeFOSA** | U | | 0.874 (L) | |
| **N-EtFOSA** | U | | 1.90 (L) | |
| **MeFOSAA** | U | | 0.760 (L) | |
| **EtFOSAA** | U | | 0.760 (L) | |
| **N-MeFOSE** | U | | 7.60 (L) | |
| **N-EtFOSE** | U | | 5.70 (L) | |
| **HFPO-DA** | U | | 2.89 (L) | |
| **ADONA** | U | | 3.04 (L) | |
| **9Cl-PF3ONS** | U | | 3.04 (L) | |
| **11Cl-PF3OUdS** | U | | 3.04 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-48_Form1A_FC0L_212S26_SJ2758835.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-050520**
**Sample Collection:**
**05-May-2020 12:35**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-48 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.526 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:40:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.6 | 89.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.4 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.52 | 95.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.97 | 99.7 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.98 | 89.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.14 | 82.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.23 | 84.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.99 | 79.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.12 | 62.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.75 | 97.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.93 | 89.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.3 | 91.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.3 | 101 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.34 | 93.4 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.58 | 85.8 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.56 | 85.6 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 99.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.1 | 101 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 94.2 | 94.2 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 94.4 | 94.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 36.8 | 92.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-48_Form2_FC0L_212S26_SJ2758835.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 15:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-49 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.520 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:53:04 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 27** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 379 | 3.08 (L) | 1:50 |
| **PFPeA** | | 12.6 | 1.54 (L) | 4:25 |
| **PFHxA** | | 15.0 | 0.770 (L) | 5:01 |
| **PFHpA** | | 9.71 | 0.770 (L) | 5:29 |
| **PFOA** | | 82.4 | 0.770 (L) | |
| **PFNA** | J | 0.872 | 0.770 (L) | |
| **PFDA** | U | | 0.770 (L) | |
| **PFUnA** | U | | 0.770 (L) | |
| **PFDoA** | U | | 0.770 (L) | |
| **PFTrDA** | U | | 0.770 (L) | |
| **PFTeDA** | U | | 0.770 (L) | |
| **PFBS** | | 4.62 | 0.770 (L) | 4:58 |
| **PFPeS** | | 3.24 | 0.770 (L) | 5:30 |
| **PFHxS** | | 10.8 | 0.770 (L) | |
| **PFHpS** | | 1.76 | 0.770 (L) | 7:09 |
| **PFOS** | | 130 | 0.770 (L) | |
| **PFNS** | U | | 0.770 (L) | |
| **PFDS** | U | | 0.770 (L) | |
| **PFDoS** | U | | 0.770 (L) | |
| **4:2 FTS** | U | | 3.08 (L) | |
| **6:2 FTS** | U | | 2.77 (L) | |
| **8:2 FTS** | U | | 3.08 (L) | |
| **PFOSA** | U | | 0.770 (L) | |
| **N-MeFOSA** | U | | 0.885 (L) | |
| **N-EtFOSA** | U | | 1.92 (L) | |
| **MeFOSAA** | U | | 0.770 (L) | |
| **EtFOSAA** | U | | 0.770 (L) | |
| **N-MeFOSE** | U | | 7.70 (L) | |
| **N-EtFOSE** | U | | 5.77 (L) | |
| **HFPO-DA** | U | | 2.92 (L) | |
| **ADONA** | U | | 3.08 (L) | |
| **9Cl-PF3ONS** | U | | 3.08 (L) | |
| **11Cl-PF3OUdS** | U | | 3.08 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-49_Form1A_FC0L_212S27_SJ2758836.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 15:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-49 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.520 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 22:53:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.83 | 98.3 | 5:29 |
| **13C8-PFOA** | | 10.0 | 9.26 | 92.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.98 | 99.7 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.75 | 95.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.58 | 71.6 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.38 | 67.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.55 | 95.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.36 | 93.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.5 | 113 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.3 | 91.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.4 | 107 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.66 | 96.6 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.62 | 86.2 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.55 | 85.5 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 21.3 | 106 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.2 | 101 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 93.7 | 93.7 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 90.9 | 90.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 38.7 | 96.8 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-49_Form2_FC0L_212S27_SJ2758836.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 13:20**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-50 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.552 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:06:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 369 | 2.90 (L) | 1:50 |
| **PFPeA** | | 12.4 | 1.45 (L) | 4:25 |
| **PFHxA** | | 15.1 | 0.724 (L) | 5:01 |
| **PFHpA** | | 9.86 | 0.724 (L) | 5:29 |
| **PFOA** | | 85.4 | 0.724 (L) | |
| **PFNA** | J | 0.863 | 0.724 (L) | |
| **PFDA** | U | | 0.724 (L) | |
| **PFUnA** | U | | 0.724 (L) | |
| **PFDoA** | U | | 0.724 (L) | |
| **PFTrDA** | U | | 0.724 (L) | |
| **PFTeDA** | U | | 0.724 (L) | |
| **PFBS** | | 4.51 | 0.724 (L) | 4:58 |
| **PFPeS** | | 3.68 | 0.724 (L) | 5:30 |
| **PFHxS** | | 11.6 | 0.724 (L) | |
| **PFHpS** | | 1.74 | 0.724 (L) | 7:09 |
| **PFOS** | | 135 | 0.724 (L) | |
| **PFNS** | U | | 0.724 (L) | |
| **PFDS** | U | | 0.724 (L) | |
| **PFDoS** | U | | 0.724 (L) | |
| **4:2 FTS** | U | | 2.90 (L) | |
| **6:2 FTS** | U | | 2.61 (L) | |
| **8:2 FTS** | U | | 2.90 (L) | |
| **PFOSA** | U | | 0.724 (L) | |
| **N-MeFOSA** | U | | 0.833 (L) | |
| **N-EtFOSA** | U | | 1.81 (L) | |
| **MeFOSAA** | U | | 0.724 (L) | |
| **EtFOSAA** | U | | 0.724 (L) | |
| **N-MeFOSE** | U | | 7.24 (L) | |
| **N-EtFOSE** | U | | 5.43 (L) | |
| **HFPO-DA** | U | | 2.75 (L) | |
| **ADONA** | U | | 2.90 (L) | |
| **9Cl-PF3ONS** | U | | 2.90 (L) | |
| **11Cl-PF3OUdS** | U | | 2.90 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-50_Form1A_FC0L_212S28_SJ2758837.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 13:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-50 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.552 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:06:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.3 | 88.3 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.66 | 96.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.31 | 93.1 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.72 | 87.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.86 | 97.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.89 | 97.7 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.48 | 89.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.22 | 64.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.67 | 96.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.16 | 91.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.83 | 98.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.9 | 110 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.9 | 94.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.2 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.78 | 87.8 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.77 | 77.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.83 | 78.3 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.5 | 92.7 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.8 | 94.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 85.6 | 85.6 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 85.0 | 85.0 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 38.4 | 96.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-50_Form2_FC0L_212S28_SJ2758837.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-02-050720**
**Sample Collection:**
**07-May-2020 13:25**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-51 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.550 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:19:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 424 | 2.91 (L) | 1:50 |
| **PFPeA** | | 13.8 | 1.45 (L) | 4:25 |
| **PFHxA** | | 17.0 | 0.727 (L) | 5:01 |
| **PFHpA** | | 10.8 | 0.727 (L) | 5:29 |
| **PFOA** | | 92.5 | 0.727 (L) | |
| **PFNA** | J | 1.02 | 0.727 (L) | |
| **PFDA** | U | | 0.727 (L) | |
| **PFUnA** | U | | 0.727 (L) | |
| **PFDoA** | U | | 0.727 (L) | |
| **PFTrDA** | U | | 0.727 (L) | |
| **PFTeDA** | U | | 0.727 (L) | |
| **PFBS** | | 4.82 | 0.727 (L) | 4:58 |
| **PFPeS** | | 4.04 | 0.727 (L) | 5:30 |
| **PFHxS** | | 12.1 | 0.727 (L) | |
| **PFHpS** | | 1.88 | 0.727 (L) | 7:09 |
| **PFOS** | | 144 | 0.727 (L) | |
| **PFNS** | U | | 0.727 (L) | |
| **PFDS** | U | | 0.727 (L) | |
| **PFDoS** | U | | 0.727 (L) | |
| **4:2 FTS** | U | | 2.91 (L) | |
| **6:2 FTS** | U | | 2.62 (L) | |
| **8:2 FTS** | U | | 2.91 (L) | |
| **PFOSA** | U | | 0.727 (L) | |
| **N-MeFOSA** | U | | 0.836 (L) | |
| **N-EtFOSA** | U | | 1.82 (L) | |
| **MeFOSAA** | U | | 0.727 (L) | |
| **EtFOSAA** | U | | 0.727 (L) | |
| **N-MeFOSE** | U | | 7.27 (L) | |
| **N-EtFOSE** | U | | 5.45 (L) | |
| **HFPO-DA** | U | | 2.76 (L) | |
| **ADONA** | U | | 2.91 (L) | |
| **9Cl-PF3ONS** | U | | 2.91 (L) | |
| **11Cl-PF3OUdS** | U | | 2.91 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-51_Form1A_FC0L_212S29_SJ2758838.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-02-050720**
**Sample Collection:**
**07-May-2020 13:25**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-51 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.550 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:19:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.8 | 84.6 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.7 | 93.3 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.90 | 89.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.37 | 83.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.98 | 79.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.50 | 90.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.09 | 81.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.10 | 82.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 2.84 | 56.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.81 | 88.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.37 | 83.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.46 | 94.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.1 | 95.6 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.6 | 93.0 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.76 | 87.6 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.30 | 73.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.72 | 77.2 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.6 | 93.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.9 | 94.6 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 86.6 | 86.6 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 81.7 | 81.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 35.2 | 88.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-51_Form2_FC0L_212S29_SJ2758838.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720**
**Sample Collection:**
**07-May-2020 13:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-52 i (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:16:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 388 | 2.92 (L) | 1:51 |
| **PFPeA** | | 12.9 | 1.46 (L) | 4:25 |
| **PFHxA** | | 15.2 | 0.731 (L) | 5:01 |
| **PFHpA** | | 11.0 | 0.731 (L) | 5:29 |
| **PFOA** | | 85.4 | 0.731 (L) | |
| **PFNA** | J | 0.894 | 0.731 (L) | |
| **PFDA** | U | | 0.731 (L) | |
| **PFUnA** | U | | 0.731 (L) | |
| **PFDoA** | U | | 0.731 (L) | |
| **PFTrDA** | U | | 0.731 (L) | |
| **PFTeDA** | U | | 0.731 (L) | |
| **PFBS** | | 4.55 | 0.731 (L) | 4:58 |
| **PFPeS** | | 3.58 | 0.731 (L) | 5:30 |
| **PFHxS** | | 11.0 | 0.731 (L) | |
| **PFHpS** | | 1.78 | 0.731 (L) | 7:09 |
| **PFOS** | | 131 | 0.731 (L) | |
| **PFNS** | U | | 0.731 (L) | |
| **PFDS** | U | | 0.731 (L) | |
| **PFDoS** | U | | 0.731 (L) | |
| **4:2 FTS** | U | | 2.92 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.92 (L) | |
| **PFOSA** | U | | 0.731 (L) | |
| **N-MeFOSA** | U | | 0.841 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.731 (L) | |
| **EtFOSAA** | U | | 0.731 (L) | |
| **N-MeFOSE** | U | | 7.31 (L) | |
| **N-EtFOSE** | U | | 5.48 (L) | |
| **HFPO-DA** | U | | 2.78 (L) | |
| **ADONA** | U | | 2.92 (L) | |
| **9Cl-PF3ONS** | U | | 2.92 (L) | |
| **11Cl-PF3OUdS** | U | | 2.92 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-52_Form1A_FC0L_212S38_SJ2758847.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720**
**Sample Collection:**
**07-May-2020 13:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-52 i (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:16:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.3 | 90.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.73 | 97.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.94 | 89.4 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.68 | 86.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.32 | 86.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.66 | 93.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.71 | 94.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.24 | 84.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.22 | 64.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.82 | 98.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.56 | 95.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.96 | 99.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.5 | 92.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.1 | 111 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.91 | 89.1 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.35 | 73.5 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.69 | 76.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 99.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.8 | 104 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 86.7 | 86.7 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 86.0 | 86.0 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 93.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-52_Form2_FC0L_212S38_SJ2758847.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 10:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-53 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.546 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:32:11 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 30** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 319 | 2.93 (L) | 1:50 |
| **PFPeA** | | 10.7 | 1.47 (L) | 4:25 |
| **PFHxA** | | 13.1 | 0.733 (L) | 5:01 |
| **PFHpA** | | 9.63 | 0.733 (L) | 5:29 |
| **PFOA** | | 79.8 | 0.733 (L) | |
| **PFNA** | U | | 0.733 (L) | |
| **PFDA** | U | | 0.733 (L) | |
| **PFUnA** | U | | 0.733 (L) | |
| **PFDoA** | U | | 0.733 (L) | |
| **PFTrDA** | U | | 0.733 (L) | |
| **PFTeDA** | U | | 0.733 (L) | |
| **PFBS** | | 4.04 | 0.733 (L) | 4:59 |
| **PFPeS** | | 2.95 | 0.733 (L) | 5:30 |
| **PFHxS** | | 10.5 | 0.733 (L) | |
| **PFHpS** | | 1.71 | 0.733 (L) | 7:09 |
| **PFOS** | | 118 | 0.733 (L) | |
| **PFNS** | U | | 0.733 (L) | |
| **PFDS** | U | | 0.733 (L) | |
| **PFDoS** | U | | 0.733 (L) | |
| **4:2 FTS** | U | | 2.93 (L) | |
| **6:2 FTS** | U | | 2.64 (L) | |
| **8:2 FTS** | U | | 2.93 (L) | |
| **PFOSA** | U | | 0.733 (L) | |
| **N-MeFOSA** | U | | 0.843 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.733 (L) | |
| **EtFOSAA** | U | | 0.733 (L) | |
| **N-MeFOSE** | U | | 7.33 (L) | |
| **N-EtFOSE** | U | | 5.50 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.93 (L) | |
| **9Cl-PF3ONS** | U | | 2.93 (L) | |
| **11Cl-PF3OUdS** | U | | 2.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-53_Form1A_FC0L_212S30_SJ2758839.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 10:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-53 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.546 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:32:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 39.3 | 98.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 22.1 | 110 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 10.4 | 104 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.83 | 98.3 | 5:29 |
| **13C8-PFOA** | | 10.0 | 9.80 | 98.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.64 | 92.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.11 | 102 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.95 | 99.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.92 | 98.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.46 | 69.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.1 | 101 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 10.0 | 100 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.9 | 109 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.3 | 111 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.7 | 93.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.6 | 108 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.88 | 98.8 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.13 | 81.3 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.21 | 82.1 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 22.3 | 112 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 22.5 | 113 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 95.9 | 95.9 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 91.3 | 91.3 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 39.3 | 98.3 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-53_Form2_FC0L_212S30_SJ2758839.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-EPI-01-050720**
**Sample Collection:**
**07-May-2020 11:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-54 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.555 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:45:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 349 | 2.88 (L) | 1:51 |
| **PFPeA** | | 11.7 | 1.44 (L) | 4:25 |
| **PFHxA** | | 15.4 | 0.721 (L) | 5:01 |
| **PFHpA** | | 10.0 | 0.721 (L) | 5:28 |
| **PFOA** | | 85.5 | 0.721 (L) | |
| **PFNA** | J | 0.799 | 0.721 (L) | |
| **PFDA** | J | 0.753 | 0.721 (L) | 7:33 |
| **PFUnA** | U | | 0.721 (L) | |
| **PFDoA** | U | | 0.721 (L) | |
| **PFTrDA** | U | | 0.721 (L) | |
| **PFTeDA** | U | | 0.721 (L) | |
| **PFBS** | | 4.16 | 0.721 (L) | 4:58 |
| **PFPeS** | | 3.46 | 0.721 (L) | 5:30 |
| **PFHxS** | | 11.5 | 0.721 (L) | |
| **PFHpS** | | 1.86 | 0.721 (L) | 7:08 |
| **PFOS** | | 134 | 0.721 (L) | |
| **PFNS** | U | | 0.721 (L) | |
| **PFDS** | U | | 0.721 (L) | |
| **PFDoS** | U | | 0.721 (L) | |
| **4:2 FTS** | U | | 2.88 (L) | |
| **6:2 FTS** | U | | 2.59 (L) | |
| **8:2 FTS** | U | | 2.88 (L) | |
| **PFOSA** | U | | 0.721 (L) | |
| **N-MeFOSA** | U | | 0.829 (L) | |
| **N-EtFOSA** | U | | 1.80 (L) | |
| **MeFOSAA** | U | | 0.721 (L) | |
| **EtFOSAA** | U | | 0.721 (L) | |
| **N-MeFOSE** | U | | 7.21 (L) | |
| **N-EtFOSE** | U | | 5.40 (L) | |
| **HFPO-DA** | U | | 2.74 (L) | |
| **ADONA** | U | | 2.88 (L) | |
| **9Cl-PF3ONS** | U | | 2.88 (L) | |
| **11Cl-PF3OUdS** | U | | 2.88 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-54_Form1A_FC0L_212S31_SJ2758840.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-EPI-01-050720**
**Sample Collection:**
**07-May-2020 11:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-54 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.555 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:45:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.9 | 92.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 21.6 | 108 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.84 | 98.4 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.31 | 93.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.47 | 94.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.53 | 90.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.49 | 89.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.71 | 94.3 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.36 | 87.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.36 | 67.2 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.68 | 96.8 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.37 | 93.7 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.51 | 95.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.9 | 109 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.4 | 87.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.3 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.96 | 89.6 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.88 | 78.8 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.35 | 83.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 19.0 | 95.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.4 | 96.8 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.6 | 87.6 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 89.1 | 89.1 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 39.0 | 97.6 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-54_Form2_FC0L_212S31_SJ2758840.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL9-WAT-SML-01-050720**
**Sample Collection:**
**07-May-2020 10:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-55 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.505 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:58:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 404 | 3.17 (L) | 1:50 |
| **PFPeA** | | 13.1 | 1.59 (L) | 4:25 |
| **PFHxA** | | 15.9 | 0.793 (L) | 5:01 |
| **PFHpA** | | 9.72 | 0.793 (L) | 5:29 |
| **PFOA** | | 82.1 | 0.793 (L) | |
| **PFNA** | U | | 0.793 (L) | |
| **PFDA** | J | 0.919 | 0.793 (L) | 7:33 |
| **PFUnA** | U | | 0.793 (L) | |
| **PFDoA** | U | | 0.793 (L) | |
| **PFTrDA** | U | | 0.793 (L) | |
| **PFTeDA** | U | | 0.793 (L) | |
| **PFBS** | | 4.89 | 0.793 (L) | 4:58 |
| **PFPeS** | | 3.47 | 0.793 (L) | 5:30 |
| **PFHxS** | | 11.1 | 0.793 (L) | |
| **PFHpS** | | 1.74 | 0.793 (L) | 7:09 |
| **PFOS** | | 141 | 0.793 (L) | |
| **PFNS** | U | | 0.793 (L) | |
| **PFDS** | U | | 0.793 (L) | |
| **PFDoS** | U | | 0.793 (L) | |
| **4:2 FTS** | U | | 3.17 (L) | |
| **6:2 FTS** | U | | 2.85 (L) | |
| **8:2 FTS** | U | | 3.17 (L) | |
| **PFOSA** | U | | 0.793 (L) | |
| **N-MeFOSA** | U | | 0.912 (L) | |
| **N-EtFOSA** | U | | 1.98 (L) | |
| **MeFOSAA** | U | | 0.793 (L) | |
| **EtFOSAA** | U | | 0.793 (L) | |
| **N-MeFOSE** | U | | 7.93 (L) | |
| **N-EtFOSE** | U | | 5.94 (L) | |
| **HFPO-DA** | U | | 3.01 (L) | |
| **ADONA** | U | | 3.17 (L) | |
| **9Cl-PF3ONS** | U | | 3.17 (L) | |
| **11Cl-PF3OUdS** | U | | 3.17 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-55_Form1A_FC0L_212S32_SJ2758841.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-SML-01-050720**
**Sample Collection:**
**07-May-2020 10:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-55 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.505 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 23:58:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 32.5 | 81.3 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.7 | 93.5 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.88 | 88.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.76 | 87.6 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.64 | 86.4 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.06 | 81.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.51 | 90.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.27 | 85.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.58 | 91.7 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.24 | 64.7 | 8:49 |
| **13C3-PFBS** | | 10.0 | 8.65 | 86.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.32 | 83.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.91 | 89.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.0 | 100 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 15.2 | 75.9 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 14.8 | 74.2 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.55 | 85.5 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.40 | 74.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.47 | 74.7 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 17.0 | 85.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.8 | 89.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 83.9 | 83.9 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 83.3 | 83.3 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 32.9 | 82.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-55_Form2_FC0L_212S32_SJ2758841.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-56 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:11:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 409 | 2.95 (L) | 1:50 |
| **PFPeA** | | 13.3 | 1.48 (L) | 4:25 |
| **PFHxA** | | 17.1 | 0.739 (L) | 5:01 |
| **PFHpA** | | 10.3 | 0.739 (L) | 5:29 |
| **PFOA** | | 89.5 | 0.739 (L) | |
| **PFNA** | J | 0.825 | 0.739 (L) | |
| **PFDA** | U | | 0.739 (L) | |
| **PFUnA** | U | | 0.739 (L) | |
| **PFDoA** | U | | 0.739 (L) | |
| **PFTrDA** | U | | 0.739 (L) | |
| **PFTeDA** | U | | 0.739 (L) | |
| **PFBS** | | 4.67 | 0.739 (L) | 4:58 |
| **PFPeS** | | 3.65 | 0.739 (L) | 5:30 |
| **PFHxS** | | 11.6 | 0.739 (L) | |
| **PFHpS** | | 2.06 | 0.739 (L) | 7:09 |
| **PFOS** | | 133 | 0.739 (L) | |
| **PFNS** | U | | 0.739 (L) | |
| **PFDS** | U | | 0.739 (L) | |
| **PFDoS** | U | | 0.739 (L) | |
| **4:2 FTS** | U | | 2.95 (L) | |
| **6:2 FTS** | U | | 2.66 (L) | |
| **8:2 FTS** | U | | 2.95 (L) | |
| **PFOSA** | U | | 0.739 (L) | |
| **N-MeFOSA** | U | | 0.849 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.739 (L) | |
| **EtFOSAA** | U | | 0.739 (L) | |
| **N-MeFOSE** | U | | 7.39 (L) | |
| **N-EtFOSE** | U | | 5.54 (L) | |
| **HFPO-DA** | U | | 2.81 (L) | |
| **ADONA** | U | | 2.95 (L) | |
| **9Cl-PF3ONS** | U | | 2.95 (L) | |
| **11Cl-PF3OUdS** | U | | 2.95 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-56_Form1A_FC0L_212S33_SJ2758842.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 12:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-56 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:11:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.7 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.6 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.26 | 92.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.45 | 94.5 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.79 | 87.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.21 | 84.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.7 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.24 | 84.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.28 | 85.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.38 | 67.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.49 | 94.9 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.76 | 87.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.56 | 95.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.4 | 112 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.6 | 87.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.8 | 99.0 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.18 | 91.8 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.27 | 82.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.11 | 81.1 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.8 | 93.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.7 | 93.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 88.3 | 88.3 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 89.9 | 89.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 33.6 | 83.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-56_Form2_FC0L_212S33_SJ2758842.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-02-050720**
**Sample Collection:**
**07-May-2020 12:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-57 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.533 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:24:15 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 34** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 389 | 3.00 (L) | 1:51 |
| **PFPeA** | | 12.5 | 1.50 (L) | 4:25 |
| **PFHxA** | | 15.6 | 0.751 (L) | 5:01 |
| **PFHpA** | | 10.8 | 0.751 (L) | 5:29 |
| **PFOA** | | 86.7 | 0.896 (S) | |
| **PFNA** | J | 0.809 | 0.751 (L) | |
| **PFDA** | U | | 0.751 (L) | |
| **PFUnA** | U | | 0.751 (L) | |
| **PFDoA** | U | | 0.751 (L) | |
| **PFTrDA** | U | | 0.751 (L) | |
| **PFTeDA** | U | | 0.751 (L) | |
| **PFBS** | | 4.65 | 0.751 (L) | 4:59 |
| **PFPeS** | | 3.77 | 0.751 (L) | 5:30 |
| **PFHxS** | | 11.1 | 0.751 (L) | |
| **PFHpS** | | 1.91 | 0.751 (L) | 7:09 |
| **PFOS** | | 135 | 0.751 (L) | |
| **PFNS** | U | | 0.751 (L) | |
| **PFDS** | U | | 0.751 (L) | |
| **PFDoS** | U | | 0.751 (L) | |
| **4:2 FTS** | U | | 3.00 (L) | |
| **6:2 FTS** | U | | 2.70 (L) | |
| **8:2 FTS** | U | | 3.00 (L) | |
| **PFOSA** | U | | 0.751 (L) | |
| **N-MeFOSA** | U | | 0.864 (L) | |
| **N-EtFOSA** | U | | 1.88 (L) | |
| **MeFOSAA** | U | | 0.751 (L) | |
| **EtFOSAA** | U | | 0.751 (L) | |
| **N-MeFOSE** | U | | 7.51 (L) | |
| **N-EtFOSE** | U | | 5.63 (L) | |
| **HFPO-DA** | U | | 2.85 (L) | |
| **ADONA** | U | | 3.00 (L) | |
| **9Cl-PF3ONS** | U | | 3.00 (L) | |
| **11Cl-PF3OUdS** | U | | 3.00 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-57_Form1A_FC0L_212S34_SJ2758843.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-02-050720**
**Sample Collection:**
**07-May-2020 12:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-57 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:24:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.7 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.3 | 91.3 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.82 | 88.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.70 | 87.0 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.18 | 81.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.06 | 81.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.73 | 94.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.15 | 82.9 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.05 | 80.9 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.14 | 62.7 | 8:49 |
| **13C3-PFBS** | | 10.0 | 9.27 | 92.7 | 4:59 |
| **13C3-PFHxS** | | 10.0 | 8.54 | 85.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.48 | 84.8 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.3 | 101 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.8 | 84.1 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 20.1 | 101 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.30 | 83.0 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.37 | 73.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.01 | 70.1 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 18.5 | 92.4 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.6 | 87.8 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 77.3 | 77.3 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 77.5 | 77.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 27.6 | 69.0 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-57_Form2_FC0L_212S34_SJ2758843.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC16A-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 16:10**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-58 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.530 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:37:12 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 35** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 87.6 | 3.02 (L) | 1:50 |
| **PFPeA** | | 6.24 | 1.51 (L) | 4:25 |
| **PFHxA** | | 4.69 | 0.755 (L) | 5:01 |
| **PFHpA** | | 2.20 | 0.755 (L) | 5:29 |
| **PFOA** | | 7.40 | 0.755 (L) | |
| **PFNA** | U | | 0.755 (L) | |
| **PFDA** | U | | 0.755 (L) | |
| **PFUnA** | U | | 0.755 (L) | |
| **PFDoA** | U | | 0.755 (L) | |
| **PFTrDA** | U | | 0.755 (L) | |
| **PFTeDA** | U | | 0.755 (L) | |
| **PFBS** | | 2.69 | 0.755 (L) | 4:58 |
| **PFPeS** | U | | 0.755 (L) | |
| **PFHxS** | | 3.33 | 0.755 (L) | |
| **PFHpS** | U | | 0.755 (L) | |
| **PFOS** | | 2.36 | 0.755 (L) | |
| **PFNS** | U | | 0.755 (L) | |
| **PFDS** | U | | 0.755 (L) | |
| **PFDoS** | U | | 0.755 (L) | |
| **4:2 FTS** | U | | 3.02 (L) | |
| **6:2 FTS** | U | | 2.72 (L) | |
| **8:2 FTS** | U | | 3.02 (L) | |
| **PFOSA** | U | | 0.755 (L) | |
| **N-MeFOSA** | U | | 0.869 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | U | | 0.755 (L) | |
| **EtFOSAA** | U | | 0.755 (L) | |
| **N-MeFOSE** | U | | 7.55 (L) | |
| **N-EtFOSE** | U | | 5.67 (L) | |
| **HFPO-DA** | U | | 2.87 (L) | |
| **ADONA** | U | | 3.02 (L) | |
| **9Cl-PF3ONS** | U | | 3.02 (L) | |
| **11Cl-PF3OUdS** | U | | 3.02 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-58_Form1A_FC0L_212S35_SJ2758844.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC16A-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 16:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-58 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:37:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.7 | 84.2 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.1 | 90.7 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 8.68 | 86.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.90 | 89.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.37 | 83.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.91 | 78.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.49 | 89.7 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.31 | 86.2 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.86 | 77.3 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.08 | 61.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.43 | 94.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.60 | 86.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.33 | 93.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.8 | 104 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.5 | 97.3 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.22 | 82.2 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.47 | 74.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.95 | 79.5 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 17.6 | 88.1 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.8 | 98.8 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 82.4 | 82.4 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 82.0 | 82.0 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 34.7 | 86.7 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-58_Form2_FC0L_212S35_SJ2758844.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 12:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-59 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.541 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:50:18 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 36** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 38.6 | 2.96 (L) | 1:50 |
| **PFPeA** | J | 3.03 | 1.48 (L) | 4:25 |
| **PFHxA** | | 2.49 | 0.740 (L) | 5:01 |
| **PFHpA** | | 1.67 | 0.740 (L) | 5:28 |
| **PFOA** | | 5.73 | 0.740 (L) | |
| **PFNA** | U | | 0.740 (L) | |
| **PFDA** | U | | 0.740 (L) | |
| **PFUnA** | U | | 0.740 (L) | |
| **PFDoA** | U | | 0.740 (L) | |
| **PFTrDA** | U | | 0.740 (L) | |
| **PFTeDA** | U | | 0.740 (L) | |
| **PFBS** | J | 1.47 | 0.740 (L) | 4:58 |
| **PFPeS** | U | | 0.740 (L) | |
| **PFHxS** | | 2.63 | 0.740 (L) | |
| **PFHpS** | U | | 0.740 (L) | |
| **PFOS** | | 2.14 | 0.740 (L) | |
| **PFNS** | U | | 0.740 (L) | |
| **PFDS** | U | | 0.740 (L) | |
| **PFDoS** | U | | 0.740 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.66 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | U | | 0.740 (L) | |
| **N-MeFOSA** | U | | 0.851 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.740 (L) | |
| **EtFOSAA** | U | | 0.740 (L) | |
| **N-MeFOSE** | U | | 7.40 (L) | |
| **N-EtFOSE** | U | | 5.55 (L) | |
| **HFPO-DA** | U | | 2.81 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-59_Form1A_FC0L_212S36_SJ2758845.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 12:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-59 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.541 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 00:50:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.6 | 89.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 99.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.98 | 99.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.79 | 87.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.66 | 86.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.20 | 84.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.59 | 71.9 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.36 | 67.3 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.47 | 94.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.23 | 92.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.72 | 97.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.1 | 101 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.9 | 89.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.0 | 105 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.83 | 88.3 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.67 | 76.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.95 | 79.5 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 16.3 | 81.4 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.0 | 94.8 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 86.9 | 86.9 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 86.6 | 86.6 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 32.2 | 80.6 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-59_Form2_FC0L_212S36_SJ2758845.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 12:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-60 i |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.539 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:03:15 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 37** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 59.0 | 2.97 (L) | 1:51 |
| **PFPeA** | | 4.33 | 1.48 (L) | 4:25 |
| **PFHxA** | | 3.39 | 0.742 (L) | 5:01 |
| **PFHpA** | | 1.78 | 0.742 (L) | 5:29 |
| **PFOA** | | 6.29 | 0.742 (L) | |
| **PFNA** | J | 0.751 | 0.742 (L) | |
| **PFDA** | U | | 0.742 (L) | |
| **PFUnA** | U | | 0.742 (L) | |
| **PFDoA** | U | | 0.742 (L) | |
| **PFTrDA** | U | | 0.742 (L) | |
| **PFTeDA** | U | | 0.742 (L) | |
| **PFBS** | | 1.83 | 0.742 (L) | 4:58 |
| **PFPeS** | U | | 0.742 (L) | |
| **PFHxS** | | 2.86 | 0.742 (L) | |
| **PFHpS** | U | | 0.742 (L) | |
| **PFOS** | | 2.09 | 0.742 (L) | |
| **PFNS** | U | | 0.742 (L) | |
| **PFDS** | U | | 0.742 (L) | |
| **PFDoS** | U | | 0.742 (L) | |
| **4:2 FTS** | U | | 2.97 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.97 (L) | |
| **PFOSA** | U | | 0.742 (L) | |
| **N-MeFOSA** | U | | 0.853 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.742 (L) | |
| **EtFOSAA** | U | | 0.742 (L) | |
| **N-MeFOSE** | U | | 7.42 (L) | |
| **N-EtFOSE** | U | | 5.56 (L) | |
| **HFPO-DA** | U | | 2.82 (L) | |
| **ADONA** | U | | 2.97 (L) | |
| **9Cl-PF3ONS** | U | | 2.97 (L) | |
| **11Cl-PF3OUdS** | U | | 2.97 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-60_Form1A_FC0L_212S37_SJ2758846.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 12:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-60 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.539 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:03:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 41.7 | 104 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 22.9 | 114 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 10.8 | 108 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 10.8 | 108 | 5:29 |
| **13C8-PFOA** | | 10.0 | 10.4 | 104 | 6:11 |
| **13C9-PFNA** | | 5.00 | 5.03 | 101 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.43 | 109 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.99 | 99.9 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.72 | 94.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.95 | 79.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.8 | 108 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 10.3 | 103 | 6:17 |
| **13C8-PFOS** | | 10.0 | 11.2 | 112 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.6 | 118 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 21.1 | 106 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 23.6 | 118 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.77 | 97.7 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.85 | 88.5 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.82 | 88.2 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.3 | 101 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 21.1 | 106 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 98.1 | 98.1 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 97.5 | 97.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 40.2 | 100 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-60_Form2_FC0L_212S37_SJ2758846.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-02-050720**
**Sample Collection:**
**07-May-2020 12:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-61 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.528 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 23:50:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 89.3 | 3.03 (L) | 1:50 |
| **PFPeA** | | 5.50 | 1.52 (L) | 4:25 |
| **PFHxA** | | 4.05 | 0.758 (L) | 5:01 |
| **PFHpA** | | 2.12 | 0.758 (L) | 5:28 |
| **PFOA** | | 6.31 | 0.758 (L) | |
| **PFNA** | U | | 0.758 (L) | |
| **PFDA** | U | | 0.758 (L) | |
| **PFUnA** | U | | 0.758 (L) | |
| **PFDoA** | U | | 0.758 (L) | |
| **PFTrDA** | U | | 0.758 (L) | |
| **PFTeDA** | U | | 0.758 (L) | |
| **PFBS** | | 2.40 | 0.758 (L) | 4:58 |
| **PFPeS** | U | | 0.758 (L) | |
| **PFHxS** | | 2.84 | 0.758 (L) | |
| **PFHpS** | U | | 0.758 (L) | |
| **PFOS** | | 2.43 | 0.758 (L) | |
| **PFNS** | U | | 0.758 (L) | |
| **PFDS** | U | | 0.758 (L) | |
| **PFDoS** | U | | 0.758 (L) | |
| **4:2 FTS** | U | | 3.03 (L) | |
| **6:2 FTS** | U | | 2.73 (L) | |
| **8:2 FTS** | U | | 3.03 (L) | |
| **PFOSA** | U | | 0.758 (L) | |
| **N-MeFOSA** | U | | 0.872 (L) | |
| **N-EtFOSA** | U | | 1.90 (L) | |
| **MeFOSAA** | U | | 0.758 (L) | |
| **EtFOSAA** | U | | 0.758 (L) | |
| **N-MeFOSE** | U | | 7.58 (L) | |
| **N-EtFOSE** | U | | 5.69 (L) | |
| **HFPO-DA** | U | | 2.88 (L) | |
| **ADONA** | U | | 3.03 (L) | |
| **9Cl-PF3ONS** | U | | 3.03 (L) | |
| **11Cl-PF3OUdS** | U | | 3.03 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-61_Form1A_FC0L_208S20_SJ2758691.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-02-050720**
**Sample Collection:**
**07-May-2020 12:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-61 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.528 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 23:50:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.84 | 14.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 17.6 | 87.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.11 | 91.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.95 | 89.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.81 | 88.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.14 | 82.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.75 | 94.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.53 | 90.7 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.70 | 74.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.34 | 66.9 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.41 | 94.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.22 | 92.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.7 | 114 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.8 | 89.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.0 | 100 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.90 | 89.0 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.55 | 85.5 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.92 | 89.2 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.6 | 98.1 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.3 | 96.5 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.6 | 87.6 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 86.3 | 86.3 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.6 | 86.5 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-61_Form2_FC0L_208S20_SJ2758691.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 14:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-62 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:03:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 125 | 2.98 (L) | 1:51 |
| **PFPeA** | | 8.39 | 1.49 (L) | 4:25 |
| **PFHxA** | | 9.99 | 0.745 (L) | 5:01 |
| **PFHpA** | | 7.26 | 0.745 (L) | 5:28 |
| **PFOA** | | 60.7 | 0.745 (L) | |
| **PFNA** | J | 1.06 | 0.745 (L) | |
| **PFDA** | J | 1.15 | 0.745 (L) | 7:33 |
| **PFUnA** | U | | 0.745 (L) | |
| **PFDoA** | U | | 0.745 (L) | |
| **PFTrDA** | U | | 0.745 (L) | |
| **PFTeDA** | U | | 0.745 (L) | |
| **PFBS** | | 4.67 | 0.745 (L) | 4:58 |
| **PFPeS** | | 2.87 | 0.745 (L) | 5:29 |
| **PFHxS** | | 8.84 | 0.745 (L) | |
| **PFHpS** | | 2.02 | 0.745 (L) | 7:09 |
| **PFOS** | | 215 | 0.745 (L) | |
| **PFNS** | U | | 0.745 (L) | |
| **PFDS** | U | | 0.745 (L) | |
| **PFDoS** | U | | 0.745 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | J | 0.934 | 0.745 (L) | |
| **N-MeFOSA** | U | | 0.857 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.745 (L) | |
| **EtFOSAA** | U | | 0.745 (L) | |
| **N-MeFOSE** | U | | 7.45 (L) | |
| **N-EtFOSE** | U | | 5.59 (L) | |
| **HFPO-DA** | U | | 2.83 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-62_Form1A_FC0L_208S21_SJ2758692.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 14:35**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-62 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:03:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.5 | 83.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 98.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.66 | 96.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.26 | 92.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.24 | 92.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.47 | 89.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.33 | 86.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.29 | 85.7 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.29 | 85.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.69 | 73.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.65 | 96.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.01 | 90.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.68 | 96.8 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.4 | 117 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.5 | 87.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.82 | 98.2 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.41 | 84.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.37 | 83.7 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.0 | 105 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.0 | 100 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 94.2 | 94.2 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 95.3 | 95.3 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.8 | 87.0 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-62_Form2_FC0L_208S21_SJ2758692.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-EPI-01-050720**
**Sample Collection:**
**07-May-2020 14:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-63 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.514 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:16:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 127 | 3.11 (L) | 1:51 |
| **PFPeA** | | 8.61 | 1.56 (L) | 4:25 |
| **PFHxA** | | 9.85 | 0.778 (L) | 5:01 |
| **PFHpA** | | 7.87 | 0.778 (L) | 5:28 |
| **PFOA** | | 62.0 | 0.778 (L) | |
| **PFNA** | J | 1.06 | 0.778 (L) | |
| **PFDA** | J | 1.12 | 0.778 (L) | 7:33 |
| **PFUnA** | U | | 0.778 (L) | |
| **PFDoA** | U | | 0.778 (L) | |
| **PFTrDA** | U | | 0.778 (L) | |
| **PFTeDA** | U | | 0.778 (L) | |
| **PFBS** | | 4.68 | 0.778 (L) | 4:58 |
| **PFPeS** | | 3.11 | 0.778 (L) | 5:29 |
| **PFHxS** | | 8.96 | 0.778 (L) | |
| **PFHpS** | | 1.91 | 0.778 (L) | 7:09 |
| **PFOS** | | 201 | 0.778 (L) | |
| **PFNS** | U | | 0.778 (L) | |
| **PFDS** | U | | 0.778 (L) | |
| **PFDoS** | U | | 0.778 (L) | |
| **4:2 FTS** | U | | 3.11 (L) | |
| **6:2 FTS** | U | | 2.80 (L) | |
| **8:2 FTS** | U | | 3.11 (L) | |
| **PFOSA** | J | 1.25 | 0.778 (L) | |
| **N-MeFOSA** | U | | 0.895 (L) | |
| **N-EtFOSA** | U | | 1.95 (L) | |
| **MeFOSAA** | U | | 0.778 (L) | |
| **EtFOSAA** | U | | 0.778 (L) | |
| **N-MeFOSE** | U | | 7.78 (L) | |
| **N-EtFOSE** | U | | 5.84 (L) | |
| **HFPO-DA** | U | | 2.96 (L) | |
| **ADONA** | U | | 3.11 (L) | |
| **9Cl-PF3ONS** | U | | 3.11 (L) | |
| **11Cl-PF3OUdS** | U | | 3.11 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-63_Form1A_FC0L_208S22_SJ2758693.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-EPI-01-050720**
**Sample Collection:**
**07-May-2020 14:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-63 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.514 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:16:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.2 | 85.4 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.5 | 97.5 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.67 | 96.7 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.42 | 94.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.07 | 90.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.89 | 97.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.48 | 89.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.76 | 75.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.79 | 75.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.61 | 96.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.91 | 89.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.3 | 103 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.8 | 119 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.1 | 100 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.62 | 96.2 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.63 | 86.3 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.64 | 86.4 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.3 | 101 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 21.2 | 106 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 91.5 | 91.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 91.8 | 91.8 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.4 | 91.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-63_Form2_FC0L_208S22_SJ2758693.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-SML-01-050720**
**Sample Collection:**
**07-May-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-64 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.502 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:29:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 130 | 3.19 (L) | 1:50 |
| **PFPeA** | | 8.68 | 1.59 (L) | 4:25 |
| **PFHxA** | | 9.86 | 0.797 (L) | 5:01 |
| **PFHpA** | | 7.61 | 0.797 (L) | 5:28 |
| **PFOA** | | 62.7 | 0.797 (L) | |
| **PFNA** | J | 0.997 | 0.797 (L) | |
| **PFDA** | | 1.77 | 0.797 (L) | 7:33 |
| **PFUnA** | U | | 0.797 (L) | |
| **PFDoA** | U | | 0.797 (L) | |
| **PFTrDA** | U | | 0.797 (L) | |
| **PFTeDA** | U | | 0.797 (L) | |
| **PFBS** | | 4.77 | 0.797 (L) | 4:58 |
| **PFPeS** | | 3.11 | 0.797 (L) | 5:29 |
| **PFHxS** | | 9.06 | 0.797 (L) | |
| **PFHpS** | | 2.22 | 0.797 (L) | 7:09 |
| **PFOS** | | 271 | 0.797 (L) | |
| **PFNS** | U | | 0.797 (L) | |
| **PFDS** | U | | 0.797 (L) | |
| **PFDoS** | U | | 0.797 (L) | |
| **4:2 FTS** | U | | 3.19 (L) | |
| **6:2 FTS** | U | | 2.87 (L) | |
| **8:2 FTS** | U | | 3.19 (L) | |
| **PFOSA** | J | 1.45 | 0.797 (L) | |
| **N-MeFOSA** | U | | 0.917 (L) | |
| **N-EtFOSA** | U | | 1.99 (L) | |
| **MeFOSAA** | U | | 0.797 (L) | |
| **EtFOSAA** | U | | 0.797 (L) | |
| **N-MeFOSE** | U | | 7.97 (L) | |
| **N-EtFOSE** | U | | 5.98 (L) | |
| **HFPO-DA** | U | | 3.03 (L) | |
| **ADONA** | U | | 3.19 (L) | |
| **9Cl-PF3ONS** | U | | 3.19 (L) | |
| **11Cl-PF3OUdS** | U | | 3.19 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-64_Form1A_FC0L_208S23_SJ2758694.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-SML-01-050720**
**Sample Collection:**
**07-May-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-64 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.502 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:29:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 31.5 | 78.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 97.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.64 | 96.4 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.62 | 96.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.23 | 92.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.44 | 88.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.43 | 88.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.48 | 89.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.22 | 84.3 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.72 | 74.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.0 | 100 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.25 | 92.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 24.7 | 123 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.4 | 87.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.6 | 93.1 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.45 | 94.5 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.04 | 80.4 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.36 | 83.6 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.8 | 104 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 22.6 | 113 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 92.6 | 92.6 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 91.8 | 91.8 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.0 | 89.9 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-64_Form2_FC0L_208S23_SJ2758694.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP23-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 17:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-65 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:42:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 804 | 3.02 (L) | 1:51 |
| **PFPeA** | | 14.9 | 1.51 (L) | 4:25 |
| **PFHxA** | | 15.4 | 0.754 (L) | 5:01 |
| **PFHpA** | | 5.11 | 0.754 (L) | 5:28 |
| **PFOA** | | 60.9 | 0.754 (L) | |
| **PFNA** | U | | 0.754 (L) | |
| **PFDA** | U | | 0.754 (L) | |
| **PFUnA** | U | | 0.754 (L) | |
| **PFDoA** | U | | 0.754 (L) | |
| **PFTrDA** | U | | 0.754 (L) | |
| **PFTeDA** | U | | 0.754 (L) | |
| **PFBS** | | 3.26 | 0.754 (L) | 4:58 |
| **PFPeS** | | 2.07 | 0.754 (L) | 5:29 |
| **PFHxS** | | 6.51 | 0.754 (L) | |
| **PFHpS** | U | | 0.754 (L) | |
| **PFOS** | | 48.4 | 0.754 (L) | |
| **PFNS** | U | | 0.754 (L) | |
| **PFDS** | U | | 0.754 (L) | |
| **PFDoS** | U | | 0.754 (L) | |
| **4:2 FTS** | U | | 3.02 (L) | |
| **6:2 FTS** | U | | 2.71 (L) | |
| **8:2 FTS** | U | | 3.02 (L) | |
| **PFOSA** | U | | 0.754 (L) | |
| **N-MeFOSA** | U | | 0.867 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | U | | 0.754 (L) | |
| **EtFOSAA** | U | | 0.754 (L) | |
| **N-MeFOSE** | U | | 7.54 (L) | |
| **N-EtFOSE** | U | | 5.66 (L) | |
| **HFPO-DA** | U | | 2.87 (L) | |
| **ADONA** | U | | 3.02 (L) | |
| **9Cl-PF3ONS** | U | | 3.02 (L) | |
| **11Cl-PF3OUdS** | U | | 3.02 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-65_Form1A_FC0L_208S24_SJ2758695.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP23-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 17:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-65 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:42:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 10.2 | 25.5 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 95.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.43 | 94.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.34 | 93.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.80 | 88.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.29 | 85.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.03 | 101 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.83 | 96.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.45 | 88.9 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.61 | 72.3 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.66 | 96.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.80 | 88.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.92 | 99.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.3 | 106 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.1 | 90.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.6 | 108 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.39 | 93.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.01 | 90.1 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 8.76 | 87.6 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.3 | 102 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.9 | 99.5 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 89.9 | 89.9 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 91.1 | 91.1 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.8 | 97.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-65_Form2_FC0L_208S24_SJ2758695.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP23-WAT-SML-01-050720**
**Sample Collection:**
**07-May-2020 17:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-66 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.516 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:55:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 910 | 3.10 (L) | 1:51 |
| **PFPeA** | | 16.7 | 1.55 (L) | 4:25 |
| **PFHxA** | | 16.4 | 0.776 (L) | 5:01 |
| **PFHpA** | | 5.98 | 0.776 (L) | 5:28 |
| **PFOA** | | 67.5 | 0.776 (L) | |
| **PFNA** | U | | 0.776 (L) | |
| **PFDA** | U | | 0.776 (L) | |
| **PFUnA** | U | | 0.776 (L) | |
| **PFDoA** | U | | 0.776 (L) | |
| **PFTrDA** | U | | 0.776 (L) | |
| **PFTeDA** | U | | 0.776 (L) | |
| **PFBS** | | 3.34 | 0.776 (L) | 4:58 |
| **PFPeS** | | 2.36 | 0.776 (L) | 5:29 |
| **PFHxS** | | 7.02 | 0.776 (L) | |
| **PFHpS** | J | 0.796 | 0.776 (L) | 7:09 |
| **PFOS** | | 56.1 | 0.776 (L) | |
| **PFNS** | U | | 0.776 (L) | |
| **PFDS** | U | | 0.776 (L) | |
| **PFDoS** | U | | 0.776 (L) | |
| **4:2 FTS** | U | | 3.10 (L) | |
| **6:2 FTS** | U | | 2.79 (L) | |
| **8:2 FTS** | U | | 3.10 (L) | |
| **PFOSA** | U | | 0.776 (L) | |
| **N-MeFOSA** | U | | 0.892 (L) | |
| **N-EtFOSA** | U | | 1.94 (L) | |
| **MeFOSAA** | U | | 0.776 (L) | |
| **EtFOSAA** | U | | 0.776 (L) | |
| **N-MeFOSE** | U | | 7.76 (L) | |
| **N-EtFOSE** | U | | 5.82 (L) | |
| **HFPO-DA** | U | | 2.95 (L) | |
| **ADONA** | U | | 3.10 (L) | |
| **9Cl-PF3ONS** | U | | 3.10 (L) | |
| **11Cl-PF3OUdS** | U | | 3.10 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-66_Form1A_FC0L_208S25_SJ2758696.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP23-WAT-SML-01-050720**
**Sample Collection:**
**07-May-2020 17:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-66 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.516 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 00:55:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 10.1 | 25.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.31 | 93.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.29 | 92.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.98 | 89.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.45 | 89.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.61 | 92.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.59 | 71.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.43 | 68.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.30 | 93.0 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.13 | 91.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.92 | 99.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.3 | 112 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.6 | 87.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.3 | 96.3 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.38 | 93.8 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.66 | 86.6 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.67 | 86.7 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.8 | 98.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.6 | 103 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.8 | 87.8 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 88.3 | 88.3 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.2 | 90.6 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-66_Form2_FC0L_208S25_SJ2758696.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP24-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 17:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-67 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:08:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 5020 | 2.92 (L) | 1:51 |
| **PFPeA** | | 55.9 | 1.46 (L) | 4:25 |
| **PFHxA** | | 52.7 | 0.730 (L) | 5:01 |
| **PFHpA** | | 9.83 | 0.730 (L) | 5:28 |
| **PFOA** | | 82.5 | 0.730 (L) | |
| **PFNA** | U | | 0.730 (L) | |
| **PFDA** | U | | 0.730 (L) | |
| **PFUnA** | U | | 0.730 (L) | |
| **PFDoA** | U | | 0.730 (L) | |
| **PFTrDA** | U | | 0.730 (L) | |
| **PFTeDA** | U | | 0.730 (L) | |
| **PFBS** | | 3.98 | 0.730 (L) | 4:58 |
| **PFPeS** | J | 1.15 | 0.730 (L) | 5:29 |
| **PFHxS** | J | 2.13 | 0.730 (L) | |
| **PFHpS** | U | | 0.730 (L) | |
| **PFOS** | J | 1.16 | 0.730 (L) | |
| **PFNS** | U | | 0.730 (L) | |
| **PFDS** | U | | 0.730 (L) | |
| **PFDoS** | U | | 0.730 (L) | |
| **4:2 FTS** | U | | 2.92 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.92 (L) | |
| **PFOSA** | U | | 0.730 (L) | |
| **N-MeFOSA** | U | | 0.840 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.730 (L) | |
| **EtFOSAA** | U | | 0.730 (L) | |
| **N-MeFOSE** | U | | 7.30 (L) | |
| **N-EtFOSE** | U | | 5.48 (L) | |
| **HFPO-DA** | U | | 2.78 (L) | |
| **ADONA** | U | | 2.92 (L) | |
| **9Cl-PF3ONS** | U | | 2.92 (L) | |
| **11Cl-PF3OUdS** | U | | 2.92 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-67_Form1A_FC0L_208S26_SJ2758697.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP24-WAT-BULK-01-050720**
**Sample Collection:**
**07-May-2020 17:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-67 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:08:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
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| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 7.07 | 17.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.90 | 99.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.45 | 94.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.83 | 88.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.55 | 91.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.59 | 91.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.04 | 80.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.32 | 66.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.23 | 92.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.96 | 89.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.24 | 92.4 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.6 | 113 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.71 | 87.1 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.82 | 78.2 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.87 | 78.7 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 18.6 | 93.1 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.4 | 92.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 79.2 | 79.2 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 79.9 | 79.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.8 | 97.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-67_Form2_FC0L_208S26_SJ2758697.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP24-WAT-BULK-02-050720**
**Sample Collection:**
**08-May-2020 09:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-68 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:21:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 4930 | 2.94 (L) | 1:50 |
| **PFPeA** | | 56.1 | 1.47 (L) | 4:25 |
| **PFHxA** | | 52.8 | 0.736 (L) | 5:01 |
| **PFHpA** | | 10.4 | 0.736 (L) | 5:28 |
| **PFOA** | | 81.6 | 0.736 (L) | |
| **PFNA** | U | | 0.736 (L) | |
| **PFDA** | U | | 0.736 (L) | |
| **PFUnA** | U | | 0.736 (L) | |
| **PFDoA** | U | | 0.736 (L) | |
| **PFTrDA** | U | | 0.736 (L) | |
| **PFTeDA** | U | | 0.736 (L) | |
| **PFBS** | | 3.82 | 0.736 (L) | 4:58 |
| **PFPeS** | J | 0.905 | 0.736 (L) | 5:29 |
| **PFHxS** | J | 2.14 | 0.736 (L) | |
| **PFHpS** | U | | 0.736 (L) | |
| **PFOS** | | 1.62 | 0.736 (L) | |
| **PFNS** | U | | 0.736 (L) | |
| **PFDS** | U | | 0.736 (L) | |
| **PFDoS** | U | | 0.736 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | J | 1.24 | 0.736 (L) | |
| **N-MeFOSA** | U | | 0.847 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.736 (L) | |
| **EtFOSAA** | U | | 0.736 (L) | |
| **N-MeFOSE** | U | | 7.36 (L) | |
| **N-EtFOSE** | U | | 5.52 (L) | |
| **HFPO-DA** | U | | 2.80 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-68_Form1A_FC0L_208S27_SJ2758698.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP24-WAT-BULK-02-050720**
**Sample Collection:**
**08-May-2020 09:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-68 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:21:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 10.0 | 25.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 17.9 | 89.5 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.11 | 91.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.88 | 88.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.37 | 87.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.13 | 82.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.40 | 67.9 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.67 | 96.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.87 | 88.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.00 | 90.0 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.9 | 120 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 84.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.1 | 95.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.39 | 83.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.11 | 71.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.11 | 71.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 18.3 | 91.3 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.8 | 94.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 76.8 | 76.8 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 74.9 | 74.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.8 | 92.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-68_Form2_FC0L_208S27_SJ2758698.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 09:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-69 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.539 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:34:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 713 | 2.97 (L) | 1:51 |
| **PFPeA** | | 79.3 | 1.49 (L) | 4:25 |
| **PFHxA** | | 175 | 0.743 (L) | 5:01 |
| **PFHpA** | | 163 | 0.743 (L) | 5:28 |
| **PFOA** | | 1390 | 0.743 (L) | |
| **PFNA** | | 8.83 | 0.743 (L) | |
| **PFDA** | | 7.75 | 0.743 (L) | 7:33 |
| **PFUnA** | U | | 0.743 (L) | |
| **PFDoA** | U | | 0.743 (L) | |
| **PFTrDA** | U | | 0.743 (L) | |
| **PFTeDA** | U | | 0.743 (L) | |
| **PFBS** | | 52.9 | 0.743 (L) | 4:58 |
| **PFPeS** | | 61.3 | 0.743 (L) | 5:29 |
| **PFHxS** | | 146 | 0.743 (L) | |
| **PFHpS** | | 49.8 | 0.743 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.743 (L) | |
| **PFDS** | U | | 0.743 (L) | |
| **PFDoS** | U | | 0.743 (L) | |
| **4:2 FTS** | U | | 2.97 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.97 (L) | |
| **PFOSA** | | 25.6 | 0.743 (L) | |
| **N-MeFOSA** | U | | 0.854 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.743 (L) | |
| **EtFOSAA** | | 11.9 | 0.743 (L) | |
| **N-MeFOSE** | U | | 7.43 (L) | |
| **N-EtFOSE** | U | | 5.57 (L) | |
| **HFPO-DA** | U | | 2.82 (L) | |
| **ADONA** | U | | 2.97 (L) | |
| **9Cl-PF3ONS** | U | | 2.97 (L) | |
| **11Cl-PF3OUdS** | U | | 2.97 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-69_Form1A_FC0L_208S28_SJ2758699.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 09:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-69 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.539 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:34:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.6 | 84.1 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.4 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.41 | 94.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 10.5 | 105 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.56 | 85.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.02 | 80.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.66 | 93.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.38 | 87.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.21 | 84.3 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.98 | 79.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.29 | 92.9 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.89 | 88.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.32 | 93.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.4 | 117 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 15.0 | 75.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.2 | 96.1 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 12.8 | 128 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 10.3 | 103 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 10.6 | 106 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 25.6 | 128 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 26.9 | 135 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 120 | 120 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 122 | 122 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 35.7 | 89.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-69_Form2_FC0L_208S28_SJ2758699.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 09:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-69 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.539 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 03:31:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 2670 | 3.71 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 09:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-69 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.539 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 03:31:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.69 | 96.9 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-69_Form2_FC0L_208S37_SJ2758708.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC20-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 14:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-70 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:47:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 604 | 2.98 (L) | 1:51 |
| **PFPeA** | | 69.2 | 1.49 (L) | 4:25 |
| **PFHxA** | | 138 | 0.745 (L) | 5:01 |
| **PFHpA** | | 144 | 0.745 (L) | 5:28 |
| **PFOA** | | 1150 | 0.745 (L) | |
| **PFNA** | | 7.42 | 0.745 (L) | |
| **PFDA** | | 8.16 | 0.745 (L) | 7:33 |
| **PFUnA** | U | | 0.745 (L) | |
| **PFDoA** | U | | 0.745 (L) | |
| **PFTrDA** | U | | 0.745 (L) | |
| **PFTeDA** | U | | 0.745 (L) | |
| **PFBS** | | 50.3 | 0.745 (L) | 4:58 |
| **PFPeS** | | 56.0 | 0.745 (L) | 5:29 |
| **PFHxS** | | 128 | 0.745 (L) | |
| **PFHpS** | | 38.6 | 0.745 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.745 (L) | |
| **PFDS** | U | | 0.745 (L) | |
| **PFDoS** | U | | 0.745 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | | 16.7 | 0.745 (L) | |
| **N-MeFOSA** | U | | 0.857 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.745 (L) | |
| **EtFOSAA** | | 6.79 | 0.745 (L) | |
| **N-MeFOSE** | U | | 7.45 (L) | |
| **N-EtFOSE** | U | | 5.59 (L) | |
| **HFPO-DA** | U | | 2.83 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-70_Form1A_FC0L_208S29_SJ2758700.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC20-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 14:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-70 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 01:47:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.7 | 84.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 96.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.87 | 98.7 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 10.2 | 102 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.76 | 87.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.41 | 88.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.83 | 96.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.93 | 98.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.86 | 97.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.07 | 81.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.0 | 100 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.05 | 90.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.91 | 99.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.9 | 120 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.6 | 78.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.6 | 103 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 13.3 | 133 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 11.1 | 111 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 11.0 | 110 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 26.0 | 130 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 27.4 | 137 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 130 | 130 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 131 | 131 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 37.4 | 93.4 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-70_Form2_FC0L_208S29_SJ2758700.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC20-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 14:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-70 N |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.537 L |
| **Extraction Date:** | 25-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 27-Jun-2020 **Time:** 03:18:23 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_208 S: 36** |
| **Dilution Factor:** | 5 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 2480 | 3.73 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC20-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 14:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-70 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 03:18:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.28 | 92.8 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-70_Form2_FC0L_208S36_SJ2758707.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP8-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 13:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-71 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.510 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:00:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 141 | 3.13 (L) | 1:51 |
| **PFPeA** | | 10.9 | 1.57 (L) | 4:25 |
| **PFHxA** | | 16.2 | 0.784 (L) | 5:01 |
| **PFHpA** | | 14.5 | 0.784 (L) | 5:28 |
| **PFOA** | | 111 | 0.784 (L) | |
| **PFNA** | J | 1.21 | 0.784 (L) | |
| **PFDA** | J | 1.50 | 0.784 (L) | 7:33 |
| **PFUnA** | U | | 0.784 (L) | |
| **PFDoA** | U | | 0.784 (L) | |
| **PFTrDA** | U | | 0.784 (L) | |
| **PFTeDA** | U | | 0.784 (L) | |
| **PFBS** | | 5.93 | 0.784 (L) | 4:58 |
| **PFPeS** | | 4.92 | 0.784 (L) | 5:29 |
| **PFHxS** | | 14.0 | 0.784 (L) | |
| **PFHpS** | | 2.70 | 0.784 (L) | 7:09 |
| **PFOS** | | 240 | 0.784 (L) | |
| **PFNS** | U | | 0.784 (L) | |
| **PFDS** | U | | 0.784 (L) | |
| **PFDoS** | U | | 0.784 (L) | |
| **4:2 FTS** | U | | 3.13 (L) | |
| **6:2 FTS** | U | | 2.82 (L) | |
| **8:2 FTS** | U | | 3.13 (L) | |
| **PFOSA** | J | 1.14 | 0.784 (L) | |
| **N-MeFOSA** | U | | 0.901 (L) | |
| **N-EtFOSA** | U | | 1.96 (L) | |
| **MeFOSAA** | U | | 0.784 (L) | |
| **EtFOSAA** | U | | 0.784 (L) | |
| **N-MeFOSE** | U | | 7.84 (L) | |
| **N-EtFOSE** | U | | 5.88 (L) | |
| **HFPO-DA** | U | | 2.98 (L) | |
| **ADONA** | U | | 3.13 (L) | |
| **9Cl-PF3ONS** | U | | 3.13 (L) | |
| **11Cl-PF3OUdS** | U | | 3.13 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_L33068-71_Form1A_FC0L_208S30_SJ2758701.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP8-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 13:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-71 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.510 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:00:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 6.98 | 17.5 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 17.7 | 88.4 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.51 | 95.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.63 | 96.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.10 | 91.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.60 | 92.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.33 | 86.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.29 | 65.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.52 | 95.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.64 | 86.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.81 | 98.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 24.4 | 122 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 21.5 | 108 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.2 | 86.2 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.15 | 91.5 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.95 | 89.5 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 9.01 | 90.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.1 | 106 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 23.2 | 116 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 83.1 | 83.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 82.6 | 82.6 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.2 | 95.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-71_Form2_FC0L_208S30_SJ2758701.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL18-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 11:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-72 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.522 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:13:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 451 | 3.07 (L) | 1:50 |
| **PFPeA** | | 12.6 | 1.53 (L) | 4:25 |
| **PFHxA** | | 15.5 | 0.766 (L) | 5:01 |
| **PFHpA** | | 9.98 | 0.766 (L) | 5:28 |
| **PFOA** | | 79.2 | 0.766 (L) | |
| **PFNA** | U | | 0.766 (L) | |
| **PFDA** | U | | 0.766 (L) | |
| **PFUnA** | U | | 0.766 (L) | |
| **PFDoA** | U | | 0.766 (L) | |
| **PFTrDA** | U | | 0.766 (L) | |
| **PFTeDA** | U | | 0.766 (L) | |
| **PFBS** | | 4.51 | 0.766 (L) | 4:58 |
| **PFPeS** | | 3.54 | 0.766 (L) | 5:29 |
| **PFHxS** | | 11.4 | 0.766 (L) | |
| **PFHpS** | | 1.63 | 0.766 (L) | 7:09 |
| **PFOS** | | 116 | 0.766 (L) | |
| **PFNS** | U | | 0.766 (L) | |
| **PFDS** | U | | 0.766 (L) | |
| **PFDoS** | U | | 0.766 (L) | |
| **4:2 FTS** | U | | 3.07 (L) | |
| **6:2 FTS** | U | | 2.76 (L) | |
| **8:2 FTS** | U | | 3.07 (L) | |
| **PFOSA** | U | | 0.766 (L) | |
| **N-MeFOSA** | U | | 0.881 (L) | |
| **N-EtFOSA** | U | | 1.92 (L) | |
| **MeFOSAA** | U | | 0.766 (L) | |
| **EtFOSAA** | U | | 0.766 (L) | |
| **N-MeFOSE** | U | | 7.66 (L) | |
| **N-EtFOSE** | U | | 5.75 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 3.07 (L) | |
| **9Cl-PF3ONS** | U | | 3.07 (L) | |
| **11Cl-PF3OUdS** | U | | 3.07 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-72_Form1A_FC0L_208S31_SJ2758702.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL18-WAT-BULK-01-050820**
**Sample Collection:**
**08-May-2020 11:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-72 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.522 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:13:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.95 | 14.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.9 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.66 | 96.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.51 | 95.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.12 | 91.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.36 | 87.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.52 | 90.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.82 | 76.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.30 | 65.9 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.72 | 97.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.57 | 85.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.46 | 94.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.6 | 113 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.7 | 93.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.04 | 90.4 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.56 | 85.6 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 8.81 | 88.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 17.8 | 88.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.4 | 92.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 88.0 | 88.0 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 88.4 | 88.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 30.1 | 75.3 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-72_Form2_FC0L_208S31_SJ2758702.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 11:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-73 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:26:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 104 | 3.05 (L) | 1:50 |
| **PFPeA** | | 6.16 | 1.53 (L) | 4:25 |
| **PFHxA** | | 5.01 | 0.763 (L) | 5:01 |
| **PFHpA** | | 3.02 | 0.763 (L) | 5:28 |
| **PFOA** | | 15.2 | 0.763 (L) | |
| **PFNA** | U | | 0.763 (L) | |
| **PFDA** | U | | 0.763 (L) | |
| **PFUnA** | U | | 0.763 (L) | |
| **PFDoA** | U | | 0.763 (L) | |
| **PFTrDA** | U | | 0.763 (L) | |
| **PFTeDA** | U | | 0.763 (L) | |
| **PFBS** | | 2.72 | 0.763 (L) | 4:58 |
| **PFPeS** | U | | 0.763 (L) | |
| **PFHxS** | | 4.13 | 0.763 (L) | |
| **PFHpS** | U | | 0.763 (L) | |
| **PFOS** | | 64.3 | 0.763 (L) | |
| **PFNS** | U | | 0.763 (L) | |
| **PFDS** | U | | 0.763 (L) | |
| **PFDoS** | U | | 0.763 (L) | |
| **4:2 FTS** | U | | 3.05 (L) | |
| **6:2 FTS** | U | | 2.75 (L) | |
| **8:2 FTS** | U | | 3.05 (L) | |
| **PFOSA** | U | | 0.763 (L) | |
| **N-MeFOSA** | U | | 0.877 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.763 (L) | |
| **EtFOSAA** | U | | 0.763 (L) | |
| **N-MeFOSE** | U | | 7.63 (L) | |
| **N-EtFOSE** | U | | 5.72 (L) | |
| **HFPO-DA** | U | | 2.90 (L) | |
| **ADONA** | U | | 3.05 (L) | |
| **9Cl-PF3ONS** | U | | 3.05 (L) | |
| **11Cl-PF3OUdS** | U | | 3.05 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-73_Form1A_FC0L_208S32_SJ2758703.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP17-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 11:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-73 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:26:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 8.82 | 22.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 91.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.43 | 94.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.34 | 93.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.83 | 88.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.34 | 86.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.80 | 95.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.62 | 92.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.54 | 90.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.93 | 78.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.44 | 94.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.77 | 87.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.83 | 98.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.4 | 112 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 84.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.05 | 90.5 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.41 | 84.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.52 | 85.2 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.1 | 100 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.0 | 99.9 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 89.1 | 89.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 90.1 | 90.1 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 35.5 | 88.8 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-73_Form2_FC0L_208S32_SJ2758703.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP25-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 12:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-74 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.538 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:39:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 3820 | 2.97 (L) | 1:50 |
| **PFPeA** | | 48.0 | 1.49 (L) | 4:25 |
| **PFHxA** | | 46.2 | 0.743 (L) | 5:01 |
| **PFHpA** | | 9.13 | 0.743 (L) | 5:28 |
| **PFOA** | | 72.3 | 0.743 (L) | |
| **PFNA** | J | 0.942 | 0.743 (L) | |
| **PFDA** | U | | 0.743 (L) | |
| **PFUnA** | U | | 0.743 (L) | |
| **PFDoA** | U | | 0.743 (L) | |
| **PFTrDA** | U | | 0.743 (L) | |
| **PFTeDA** | U | | 0.743 (L) | |
| **PFBS** | | 3.03 | 0.743 (L) | 4:58 |
| **PFPeS** | J | 1.07 | 0.743 (L) | 5:29 |
| **PFHxS** | J | 1.93 | 0.743 (L) | |
| **PFHpS** | U | | 0.743 (L) | |
| **PFOS** | | 2.91 | 0.743 (L) | |
| **PFNS** | U | | 0.743 (L) | |
| **PFDS** | U | | 0.743 (L) | |
| **PFDoS** | U | | 0.743 (L) | |
| **4:2 FTS** | U | | 2.97 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.97 (L) | |
| **PFOSA** | U | | 0.743 (L) | |
| **N-MeFOSA** | U | | 0.855 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.743 (L) | |
| **EtFOSAA** | U | | 0.743 (L) | |
| **N-MeFOSE** | U | | 7.43 (L) | |
| **N-EtFOSE** | U | | 5.57 (L) | |
| **HFPO-DA** | U | | 2.82 (L) | |
| **ADONA** | U | | 2.97 (L) | |
| **9Cl-PF3ONS** | U | | 2.97 (L) | |
| **11Cl-PF3OUdS** | U | | 2.97 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-74_Form1A_FC0L_208S33_SJ2758704.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP25-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 12:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-74 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.538 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:39:15 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.93 | 14.8 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 92.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.57 | 95.7 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.27 | 92.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.93 | 89.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.47 | 89.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.63 | 92.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.20 | 84.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.18 | 63.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.22 | 92.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.55 | 85.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.41 | 94.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 25.1 | 125 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.5 | 87.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.08 | 90.8 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.73 | 77.3 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.78 | 77.8 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 18.9 | 94.4 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.5 | 97.6 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 74.8 | 74.8 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 73.1 | 73.1 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.5 | 91.3 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-74_Form2_FC0L_208S33_SJ2758704.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-SML-01-042420**
**Sample Collection:**
**24-Apr-2020 15:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-75 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.529 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:52:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1020 | 3.02 (L) | 1:51 |
| **PFPeA** | | 16.3 | 1.51 (L) | 4:25 |
| **PFHxA** | | 16.9 | 0.756 (L) | 5:01 |
| **PFHpA** | | 5.88 | 0.756 (L) | 5:28 |
| **PFOA** | | 68.6 | 0.756 (L) | |
| **PFNA** | J | 0.936 | 0.756 (L) | |
| **PFDA** | | 1.86 | 0.756 (L) | 7:33 |
| **PFUnA** | U | | 0.756 (L) | |
| **PFDoA** | U | | 0.756 (L) | |
| **PFTrDA** | U | | 0.756 (L) | |
| **PFTeDA** | U | | 0.756 (L) | |
| **PFBS** | | 3.20 | 0.756 (L) | 4:58 |
| **PFPeS** | | 2.27 | 0.756 (L) | 5:29 |
| **PFHxS** | | 6.88 | 0.756 (L) | |
| **PFHpS** | J | 1.00 | 0.756 (L) | 7:09 |
| **PFOS** | | 170 | 0.756 (L) | |
| **PFNS** | U | | 0.756 (L) | |
| **PFDS** | U | | 0.756 (L) | |
| **PFDoS** | U | | 0.756 (L) | |
| **4:2 FTS** | U | | 3.02 (L) | |
| **6:2 FTS** | U | | 2.72 (L) | |
| **8:2 FTS** | U | | 3.02 (L) | |
| **PFOSA** | J | 0.798 | 0.756 (L) | |
| **N-MeFOSA** | U | | 0.869 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | | 2.33 | 0.756 (L) | |
| **EtFOSAA** | U | | 0.756 (L) | |
| **N-MeFOSE** | U | | 7.56 (L) | |
| **N-EtFOSE** | U | | 5.67 (L) | |
| **HFPO-DA** | U | | 2.87 (L) | |
| **ADONA** | U | | 3.02 (L) | |
| **9Cl-PF3ONS** | U | | 3.02 (L) | |
| **11Cl-PF3OUdS** | U | | 3.02 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-75_Form1A_FC0L_208S34_SJ2758705.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-WAT-SML-01-042420**
**Sample Collection:**
**24-Apr-2020 15:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-75 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.529 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 27-Jun-2020 **Time:** 02:52:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 10.4 | 25.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.2 | 91.2 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.77 | 87.7 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.21 | 92.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.71 | 87.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.92 | 98.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.04 | 101 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.27 | 85.3 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.84 | 76.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.41 | 94.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.89 | 88.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.05 | 90.5 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.2 | 111 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.9 | 99.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.09 | 90.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 6.96 | 69.6 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.91 | 69.1 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 18.0 | 90.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.9 | 94.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 78.1 | 78.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 75.0 | 75.0 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 33.1 | 82.6 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-75_Form2_FC0L_208S34_SJ2758705.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG72596-101 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 20:55:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 18** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72596-101_Form1A_FC0L_212S18_SJ2758827.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-101 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 20:55:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 18** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.0 | 82.5 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.2 | 91.0 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.90 | 89.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.81 | 88.1 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.73 | 87.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.07 | 81.5 | 7:03 |
| **13C6-PFDA** | | 5.00 | 4.54 | 90.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.51 | 90.1 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.19 | 83.8 | 8:09 |
| **13C2-PFTeDA** | | 5.00 | 3.83 | 76.5 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.20 | 92.0 | 4:59 |
| **13C3-PFHxS** | | 10.0 | 8.55 | 85.5 | 6:18 |
| **13C8-PFOS** | | 10.0 | 9.66 | 96.6 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 18.5 | 92.7 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 19.8 | 99.0 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 22.2 | 111 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.70 | 87.0 | 8:43 |
| **D3-N-MeFOSA** | | 10.0 | 5.79 | 57.9 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.17 | 61.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.8 | 99.0 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.6 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 83.7 | 83.7 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 83.9 | 83.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 29.3 | 73.2 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72596-101_Form2_FC0L_212S18_SJ2758827.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG72597-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 23:37:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72597-101_Form1A_FC0L_208S19_SJ2758690.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72597-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 23:37:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_208 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.2 | 88.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.7 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.36 | 93.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.93 | 89.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.89 | 88.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.50 | 90.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.95 | 98.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.87 | 97.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.74 | 94.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.16 | 83.3 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.52 | 95.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.15 | 91.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.83 | 98.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.3 | 101 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 19.6 | 98.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.7 | 109 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.92 | 89.2 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 6.00 | 60.0 | 10:10 |
| **D5-N-EtFOSA** | | 10.0 | 6.60 | 66.0 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 21.1 | 105 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.9 | 99.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 88.5 | 88.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 89.7 | 89.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 35.4 | 88.5 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72597-101_Form2_FC0L_208S19_SJ2758690.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-102 i |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 20:29:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_212 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 35.6 | 89.1 | 1:52 |
| **PFPeA** | | 20.0 | 17.3 | 86.7 | 4:25 |
| **PFHxA** | | 10.0 | 8.71 | 87.1 | 5:01 |
| **PFHpA** | | 10.0 | 8.91 | 89.1 | 5:29 |
| **PFOA** | | 10.0 | 8.23 | 82.3 | |
| **PFNA** | | 10.0 | 8.79 | 87.9 | |
| **PFDA** | | 10.0 | 8.87 | 88.7 | 7:33 |
| **PFUnA** | | 10.0 | 9.21 | 92.1 | 7:53 |
| **PFDoA** | | 10.0 | 9.16 | 91.6 | 8:09 |
| **PFTrDA** | | 10.0 | 8.60 | 86.0 | 8:27 |
| **PFTeDA** | | 10.0 | 9.72 | 97.2 | 8:51 |
| **PFBS** | | 10.0 | 8.39 | 83.9 | 4:59 |
| **PFPeS** | | 10.0 | 9.62 | 96.2 | 5:30 |
| **PFHxS** | | 10.0 | 8.47 | 84.7 | |
| **PFHpS** | | 10.0 | 8.32 | 83.2 | 7:09 |
| **PFOS** | N | 10.0 | 7.73 | 77.3 | |
| **PFNS** | | 10.0 | 9.01 | 90.1 | 7:58 |
| **PFDS** | | 10.0 | 8.34 | 83.4 | 8:15 |
| **PFDoS** | N | 10.0 | 7.53 | 75.3 | 9:01 |
| **4:2 FTS** | | 40.0 | 36.8 | 92.0 | 4:54 |
| **6:2 FTS** | | 36.1 | 32.9 | 91.4 | 5:54 |
| **8:2 FTS** | | 40.0 | 36.1 | 90.1 | 7:24 |
| **PFOSA** | | 10.0 | 9.29 | 92.9 | |
| **N-MeFOSA** | | 11.5 | 10.5 | 91.7 | |
| **N-EtFOSA** | N | 25.0 | 19.6 | 78.2 | |
| **MeFOSAA** | | 10.0 | 9.05 | 90.5 | |
| **EtFOSAA** | | 10.0 | 9.19 | 91.9 | |
| **N-MeFOSE** | | 100 | 95.6 | 95.6 | |
| **N-EtFOSE** | | 75.0 | 70.3 | 93.8 | |
| **HFPO-DA** | | 38.0 | 34.2 | 90.1 | 5:10 |
| **ADONA** | | 40.0 | 39.1 | 97.7 | 5:42 |
| **9Cl-PF3ONS** | | 40.0 | 40.5 | 101 | 7:53 |
| **11Cl-PF3OUdS** | | 40.0 | 36.6 | 91.4 | 8:28 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-102 i |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 29-Jun-2020 **Time:** 20:29:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_212 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 39.7 | 99.2 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 22.7 | 113 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 10.5 | 105 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.60 | 96.0 | 5:29 |
| **13C8-PFOA** | | 10.0 | 9.51 | 95.1 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.94 | 98.8 | 7:03 |
| **13C6-PFDA** | | 5.00 | 5.25 | 105 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.95 | 99.0 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.75 | 94.9 | 8:09 |
| **13C2-PFTeDA** | | 5.00 | 3.97 | 79.3 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.9 | 109 | 4:59 |
| **13C3-PFHxS** | | 10.0 | 10.6 | 106 | 6:18 |
| **13C8-PFOS** | | 10.0 | 10.8 | 108 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 20.4 | 102 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 21.2 | 106 | 5:54 |
| **13C2-8:2 FTS** | | 20.0 | 22.8 | 114 | 7:24 |
| **13C8-PFOSA** | | 10.0 | 8.96 | 89.6 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.05 | 70.5 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.44 | 74.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 21.7 | 108 | 7:37 |
| **D5-EtFOSAA** | | 20.0 | 20.7 | 103 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 89.6 | 89.6 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 88.7 | 88.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 41.6 | 104 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: PFC_FC_LC_PFAS_WG72596-102_Form8B_SJ2758823.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72597-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 22:58:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_208 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.4 | 98.4 | 1:50 |
| **PFPeA** | | 20.0 | 19.4 | 96.9 | 4:25 |
| **PFHxA** | | 10.0 | 9.06 | 90.6 | 5:01 |
| **PFHpA** | | 10.0 | 9.50 | 95.0 | 5:28 |
| **PFOA** | | 10.0 | 9.28 | 92.8 | |
| **PFNA** | | 10.0 | 10.3 | 103 | |
| **PFDA** | | 10.0 | 9.29 | 92.9 | 7:33 |
| **PFUnA** | | 10.0 | 9.49 | 94.9 | 7:52 |
| **PFDoA** | | 10.0 | 8.76 | 87.6 | 8:08 |
| **PFTrDA** | | 10.0 | 9.15 | 91.5 | 8:26 |
| **PFTeDA** | | 10.0 | 10.0 | 100 | 8:50 |
| **PFBS** | | 10.0 | 9.78 | 97.8 | 4:58 |
| **PFPeS** | | 10.0 | 10.1 | 101 | 5:29 |
| **PFHxS** | | 10.0 | 9.63 | 96.3 | |
| **PFHpS** | | 10.0 | 9.12 | 91.2 | 7:09 |
| **PFOS** | | 10.0 | 8.96 | 89.6 | |
| **PFNS** | | 10.0 | 8.26 | 82.6 | 7:57 |
| **PFDS** | | 10.0 | 9.07 | 90.7 | 8:14 |
| **PFDoS** | | 10.0 | 8.55 | 85.5 | 9:00 |
| **4:2 FTS** | | 40.0 | 42.6 | 106 | 4:54 |
| **6:2 FTS** | | 36.1 | 34.5 | 95.8 | 5:53 |
| **8:2 FTS** | | 40.0 | 41.0 | 102 | 7:23 |
| **PFOSA** | | 10.0 | 10.2 | 102 | |
| **N-MeFOSA** | | 11.5 | 11.8 | 102 | |
| **N-EtFOSA** | | 25.0 | 23.9 | 95.6 | |
| **MeFOSAA** | | 10.0 | 9.61 | 96.1 | |
| **EtFOSAA** | | 10.0 | 9.51 | 95.1 | |
| **N-MeFOSE** | | 100 | 100 | 100 | |
| **N-EtFOSE** | | 75.0 | 75.3 | 100 | |
| **HFPO-DA** | | 38.0 | 30.8 | 81.0 | 5:10 |
| **ADONA** | | 40.0 | 41.6 | 104 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 44.3 | 111 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 41.8 | 105 | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72597-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 22:58:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_208 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.5 | 88.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 100 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.78 | 97.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.22 | 92.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.87 | 88.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.35 | 86.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.12 | 102 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.03 | 101 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 5.22 | 104 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.41 | 88.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.27 | 92.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.02 | 90.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.73 | 97.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.6 | 88.1 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.4 | 92.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.9 | 99.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.45 | 84.5 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 6.78 | 67.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.82 | 68.2 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.5 | 97.5 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.3 | 96.6 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 86.1 | 86.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 84.1 | 84.1 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.1 | 90.3 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72597-103 (DUP WG72597-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 23:11:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_208 S: 17** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 37.8 | 94.4 | 1:50 |
| **PFPeA** | | 20.0 | 18.4 | 92.1 | 4:25 |
| **PFHxA** | | 10.0 | 8.72 | 87.2 | 5:01 |
| **PFHpA** | | 10.0 | 9.17 | 91.7 | 5:28 |
| **PFOA** | | 10.0 | 8.89 | 88.9 | |
| **PFNA** | | 10.0 | 8.95 | 89.5 | |
| **PFDA** | | 10.0 | 9.10 | 91.0 | 7:33 |
| **PFUnA** | | 10.0 | 9.52 | 95.2 | 7:52 |
| **PFDoA** | | 10.0 | 11.7 | 117 | 8:08 |
| **PFTrDA** | | 10.0 | 10.5 | 105 | 8:26 |
| **PFTeDA** | | 10.0 | 9.49 | 94.9 | 8:50 |
| **PFBS** | | 10.0 | 9.12 | 91.2 | 4:58 |
| **PFPeS** | | 10.0 | 9.62 | 96.2 | 5:29 |
| **PFHxS** | | 10.0 | 9.28 | 92.8 | |
| **PFHpS** | | 10.0 | 9.55 | 95.5 | 7:09 |
| **PFOS** | | 10.0 | 9.23 | 92.3 | |
| **PFNS** | | 10.0 | 10.9 | 109 | 7:57 |
| **PFDS** | | 10.0 | 9.66 | 96.6 | 8:14 |
| **PFDoS** | | 10.0 | 9.11 | 91.1 | 9:00 |
| **4:2 FTS** | | 40.0 | 39.5 | 98.7 | 4:54 |
| **6:2 FTS** | | 36.1 | 35.0 | 97.1 | 5:53 |
| **8:2 FTS** | | 40.0 | 37.1 | 92.8 | 7:23 |
| **PFOSA** | | 10.0 | 9.64 | 96.4 | |
| **N-MeFOSA** | | 11.5 | 11.3 | 98.3 | |
| **N-EtFOSA** | | 25.0 | 21.9 | 87.7 | |
| **MeFOSAA** | | 10.0 | 10.1 | 101 | |
| **EtFOSAA** | | 10.0 | 9.54 | 95.4 | |
| **N-MeFOSE** | | 100 | 96.9 | 96.9 | |
| **N-EtFOSE** | | 75.0 | 73.3 | 97.8 | |
| **HFPO-DA** | | 38.0 | 36.2 | 95.2 | 5:10 |
| **ADONA** | | 40.0 | 42.1 | 105 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 44.5 | 111 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 43.8 | 110 | 8:28 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72597-103_Form8A_SJ2758686.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72597-103 (DUP WG72597-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 23:11:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_208 S: 17** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_208 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_208 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.6 | 91.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 21.3 | 107 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.30 | 93.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.20 | 92.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.59 | 91.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.87 | 97.4 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.72 | 94.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.97 | 79.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.26 | 85.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.86 | 98.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.42 | 94.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.9 | 94.4 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 19.2 | 96.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.1 | 105 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.54 | 95.4 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.40 | 74.0 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.76 | 77.6 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 20.8 | 104 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.7 | 103 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 94.5 | 94.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 92.5 | 92.5 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 35.5 | 88.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72597-103_Form8B_SJ2758686.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72597-102 (A) LAB FLAG [1] | WG72597-102 (A) CONC. FOUND | WG72597-103 LAB FLAG [1] | WG72597-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 39.4 | | 37.8 | 38.6 | 4.14 |
| **PFPeA** | | 19.4 | | 18.4 | 18.9 | 5.03 |
| **PFHxA** | | 9.06 | | 8.72 | 8.89 | 3.91 |
| **PFHpA** | | 9.50 | | 9.17 | 9.34 | 3.51 |
| **PFOA** | | 9.28 | | 8.89 | 9.09 | 4.22 |
| **PFNA** | | 10.3 | | 8.95 | 9.61 | 13.6 |
| **PFDA** | | 9.29 | | 9.10 | 9.20 | 2.06 |
| **PFUnA** | | 9.49 | | 9.52 | 9.50 | 0.295 |
| **PFDoA** | | 8.76 | | 11.7 | 10.2 | 28.4 |
| **PFTrDA** | | 9.15 | | 10.5 | 9.81 | 13.5 |
| **PFTeDA** | | 10.0 | | 9.49 | 9.77 | 5.63 |
| **PFBS** | | 9.78 | | 9.12 | 9.45 | 6.97 |
| **PFPeS** | | 10.1 | | 9.62 | 9.85 | 4.74 |
| **PFHxS** | | 9.63 | | 9.28 | 9.45 | 3.63 |
| **PFHpS** | | 9.12 | | 9.55 | 9.33 | 4.61 |
| **PFOS** | | 8.96 | | 9.23 | 9.10 | 2.91 |
| **PFNS** | | 8.26 | | 10.9 | 9.58 | 27.5 |
| **PFDS** | | 9.07 | | 9.66 | 9.36 | 6.34 |
| **PFDoS** | | 8.55 | | 9.11 | 8.83 | 6.34 |
| **4:2 FTS** | | 42.6 | | 39.5 | 41.0 | 7.62 |
| **6:2 FTS** | | 34.5 | | 35.0 | 34.8 | 1.42 |
| **8:2 FTS** | | 41.0 | | 37.1 | 39.0 | 9.85 |
| **PFOSA** | | 10.2 | | 9.64 | 9.90 | 5.36 |
| **N-MeFOSA** | | 11.8 | | 11.3 | 11.5 | 3.92 |
| **N-EtFOSA** | | 23.9 | | 21.9 | 22.9 | 8.63 |
| **MeFOSAA** | | 9.61 | | 10.1 | 9.86 | 5.06 |
| **EtFOSAA** | | 9.51 | | 9.54 | 9.53 | 0.309 |
| **N-MeFOSE** | | 100 | | 96.9 | 98.6 | 3.53 |
| **N-EtFOSE** | | 75.3 | | 73.3 | 74.3 | 2.71 |
| **HFPO-DA** | | 30.8 | | 36.2 | 33.5 | 16.0 |
| **ADONA** | | 41.6 | | 42.1 | 41.8 | 1.21 |
| **9Cl-PF3ONS** | | 44.3 | | 44.5 | 44.4 | 0.355 |
| **11Cl-PF3OUdS** | | 41.8 | | 43.8 | 42.8 | 4.74 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: RPD.xsl; Created: 08-Jul-2020 08:05:18; Application: XMLTransformer-1.18.8;
Report Filename: RPD_FC_LC_PFAS-RPD_WG72597-103_WG72597-102_.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS)**
**ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720 (MS)**
**Sample Collection:**
**07-May-2020 13:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-103 i (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:29:18 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_212 S: 39** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 365 | | 388 | 741 | 96.5 | 2.55 |
| **PFPeA** | | N/A | 183 | | 12.9 | 188 | 95.7 | 6.78 |
| **PFHxA** | | N/A | 91.3 | | 15.2 | 96.8 | 89.4 | 13.6 |
| **PFHpA** | | N/A | 91.3 | | 11.0 | 102 | 99.3 | 1.61 |
| **PFOA** | | N/A | 91.3 | | 85.4 | 170 | 92.3 | 0.490 |
| **PFNA** | | N/A | 91.3 | J | 0.894 | 86.9 | 94.2 | 8.80 |
| **PFDA** | | N/A | 91.3 | U | | 88.3 | 96.7 | 2.63 |
| **PFUnA** | | N/A | 91.3 | U | | 88.9 | 97.4 | 1.64 |
| **PFDoA** | | N/A | 91.3 | U | | 92.5 | 101 | 0.245 |
| **PFTrDA** | | N/A | 91.3 | U | | 85.2 | 93.4 | 7.31 |
| **PFTeDA** | | N/A | 91.3 | U | | 86.9 | 95.2 | 8.05 |
| **PFBS** | | N/A | 91.3 | | 4.55 | 93.8 | 97.7 | 1.38 |
| **PFPeS** | | N/A | 91.3 | | 3.58 | 97.1 | 102 | 8.79 |
| **PFHxS** | | N/A | 91.3 | | 11.0 | 98.1 | 95.4 | 9.06 |
| **PFHpS** | | N/A | 91.3 | | 1.78 | 90.5 | 97.2 | 4.48 |
| **PFOS** | | N/A | 91.3 | | 131 | 218 | 96.0 | 4.47 |
| **PFNS** | | N/A | 91.3 | U | | 98.3 | 108 | 14.6 |
| **PFDS** | | N/A | 91.3 | U | | 84.9 | 93.0 | 7.26 |
| **PFDoS** | | N/A | 91.3 | U | | 69.3 | 75.9 | 8.38 |
| **4:2 FTS** | | N/A | 365 | U | | 378 | 104 | 3.23 |
| **6:2 FTS** | | N/A | 329 | U | | 301 | 91.5 | 9.47 |
| **8:2 FTS** | | N/A | 365 | U | | 364 | 99.7 | 2.24 |
| **PFOSA** | | N/A | 91.3 | U | | 92.9 | 102 | 4.64 |
| **N-MeFOSA** | | N/A | 105 | U | | 99.9 | 95.1 | 8.91 |
| **N-EtFOSA** | | N/A | 228 | U | | 197 | 86.4 | 7.53 |
| **MeFOSAA** | | N/A | 91.3 | U | | 91.9 | 101 | 12.1 |
| **EtFOSAA** | | N/A | 91.3 | U | | 88.3 | 96.7 | 2.27 |
| **N-MeFOSE** | | N/A | 913 | U | | 898 | 98.4 | 7.63 |
| **N-EtFOSE** | | N/A | 684 | U | | 680 | 99.4 | 6.62 |
| **HFPO-DA** | | N/A | 347 | U | | 294 | 84.8 | 24.9 |
| **ADONA** | | N/A | 365 | U | | 387 | 106 | 9.83 |
| **9Cl-PF3ONS** | | N/A | 365 | U | | 388 | 106 | 7.55 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 365 | U | | 362 | 99.1 | 10.4 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 03-Jul-2020 18:53:25; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72596-103_L33068-52_Form8C.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720 (MS)**
**Sample Collection: 07-May-2020 13:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-103 i (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:29:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 741 | 2.92 (L) | 1:50 |
| **PFPeA** | | 188 | 1.46 (L) | 4:25 |
| **PFHxA** | | 96.8 | 0.730 (L) | 5:01 |
| **PFHpA** | | 102 | 0.730 (L) | 5:28 |
| **PFOA** | | 170 | 0.730 (L) | |
| **PFNA** | | 86.9 | 0.730 (L) | |
| **PFDA** | | 88.3 | 0.730 (L) | 7:33 |
| **PFUnA** | | 88.9 | 0.730 (L) | 7:52 |
| **PFDoA** | | 92.5 | 0.730 (L) | 8:08 |
| **PFTrDA** | | 85.2 | 0.730 (L) | 8:26 |
| **PFTeDA** | | 86.9 | 0.730 (L) | 8:50 |
| **PFBS** | | 93.8 | 0.730 (L) | 4:58 |
| **PFPeS** | | 97.1 | 0.730 (L) | 5:30 |
| **PFHxS** | | 98.1 | 0.730 (L) | |
| **PFHpS** | | 90.5 | 0.730 (L) | 7:09 |
| **PFOS** | | 218 | 0.730 (L) | |
| **PFNS** | | 98.3 | 0.730 (L) | 7:57 |
| **PFDS** | | 84.9 | 0.730 (L) | 8:14 |
| **PFDoS** | | 69.3 | 0.730 (L) | 9:00 |
| **4:2 FTS** | | 378 | 2.92 (L) | 4:54 |
| **6:2 FTS** | | 301 | 2.63 (L) | 5:53 |
| **8:2 FTS** | | 364 | 2.92 (L) | 7:23 |
| **PFOSA** | | 92.9 | 0.730 (L) | |
| **N-MeFOSA** | | 99.9 | 0.840 (L) | |
| **N-EtFOSA** | | 197 | 1.83 (L) | |
| **MeFOSAA** | | 91.9 | 0.730 (L) | |
| **EtFOSAA** | | 88.3 | 0.730 (L) | |
| **N-MeFOSE** | | 898 | 7.30 (L) | |
| **N-EtFOSE** | | 680 | 5.48 (L) | |
| **HFPO-DA** | | 294 | 2.78 (L) | 5:10 |
| **ADONA** | | 387 | 2.92 (L) | 5:41 |
| **9Cl-PF3ONS** | | 388 | 2.92 (L) | 7:52 |
| **11Cl-PF3OUdS** | | 362 | 2.92 (L) | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72596-103_Form1A_FC0L_212S39_SJ2758848.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720 (MS)**
**Sample Collection: 07-May-2020 13:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-103 i (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:29:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.3 | 88.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.7 | 98.3 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.65 | 96.5 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.89 | 88.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.67 | 86.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.47 | 89.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.27 | 85.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 3.92 | 78.3 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.96 | 79.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.19 | 63.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.06 | 90.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.08 | 90.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.84 | 98.4 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 16.2 | 80.8 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 15.1 | 75.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 16.1 | 80.3 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.08 | 90.8 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.49 | 74.9 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.29 | 72.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 100 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.6 | 98.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.5 | 87.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 85.5 | 85.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 34.8 | 86.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72596-103_Form2_FC0L_212S39_SJ2758848.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720 (MSD)**
**Sample Collection:**
**07-May-2020 13:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-104 i (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.512 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:42:23 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_212 S: 40** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| | | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 391 | | 388 | 760 | 95.1 | 2.55 |
| **PFPeA** | | N/A | 195 | | 12.9 | 201 | 96.2 | 6.78 |
| **PFHxA** | | N/A | 97.7 | | 15.2 | 111 | 98.0 | 13.6 |
| **PFHpA** | | N/A | 97.7 | | 11.0 | 103 | 94.5 | 1.61 |
| **PFOA** | | N/A | 97.7 | | 85.4 | 170 | 87.1 | 0.490 |
| **PFNA** | | N/A | 97.7 | J | 0.894 | 94.9 | 96.2 | 8.80 |
| **PFDA** | | N/A | 97.7 | U | | 90.6 | 92.8 | 2.63 |
| **PFUnA** | | N/A | 97.7 | U | | 90.4 | 92.6 | 1.64 |
| **PFDoA** | | N/A | 97.7 | U | | 92.3 | 94.5 | 0.245 |
| **PFTrDA** | | N/A | 97.7 | U | | 91.7 | 93.9 | 7.31 |
| **PFTeDA** | | N/A | 97.7 | U | | 94.2 | 96.4 | 8.05 |
| **PFBS** | | N/A | 97.7 | | 4.55 | 95.1 | 92.7 | 1.38 |
| **PFPeS** | | N/A | 97.7 | | 3.58 | 106 | 105 | 8.79 |
| **PFHxS** | | N/A | 97.7 | | 11.0 | 107 | 98.7 | 9.06 |
| **PFHpS** | | N/A | 97.7 | | 1.78 | 94.7 | 95.1 | 4.48 |
| **PFOS** | | N/A | 97.7 | | 131 | 228 | 100 | 4.47 |
| **PFNS** | | N/A | 97.7 | U | | 84.9 | 86.9 | 14.6 |
| **PFDS** | | N/A | 97.7 | U | | 91.3 | 93.5 | 7.26 |
| **PFDoS** | | N/A | 97.7 | U | | 75.3 | 77.1 | 8.38 |
| **4:2 FTS** | | N/A | 391 | U | | 391 | 100 | 3.23 |
| **6:2 FTS** | | N/A | 352 | U | | 331 | 94.0 | 9.47 |
| **8:2 FTS** | | N/A | 391 | U | | 372 | 95.3 | 2.24 |
| **PFOSA** | | N/A | 97.7 | U | | 97.3 | 99.7 | 4.64 |
| **N-MeFOSA** | | N/A | 112 | U | | 109 | 97.2 | 8.91 |
| **N-EtFOSA** | | N/A | 244 | U | | 213 | 87.0 | 7.53 |
| **MeFOSAA** | | N/A | 97.7 | U | | 104 | 106 | 12.1 |
| **EtFOSAA** | | N/A | 97.7 | U | | 90.3 | 92.5 | 2.27 |
| **N-MeFOSE** | | N/A | 977 | U | | 970 | 99.3 | 7.63 |
| **N-EtFOSE** | | N/A | 732 | U | | 727 | 99.3 | 6.62 |
| **HFPO-DA** | | N/A | 371 | U | | 378 | 102 | 24.9 |
| **ADONA** | | N/A | 391 | U | | 427 | 109 | 9.83 |
| **9Cl-PF3ONS** | | N/A | 391 | U | | 419 | 107 | 7.55 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 391 | U | | 402 | 103 | 10.4 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 03-Jul-2020 18:53:25; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72596-104_L33068-52_Form8E.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720 (MSD)**
**Sample Collection: 07-May-2020 13:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72596-104 i (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.512 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 24-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:42:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 760 | 3.13 (L) | 1:50 |
| **PFPeA** | | 201 | 1.56 (L) | 4:25 |
| **PFHxA** | | 111 | 0.781 (L) | 5:01 |
| **PFHpA** | | 103 | 0.781 (L) | 5:28 |
| **PFOA** | | 170 | 0.781 (L) | |
| **PFNA** | | 94.9 | 0.781 (L) | |
| **PFDA** | | 90.6 | 0.781 (L) | 7:33 |
| **PFUnA** | | 90.4 | 0.781 (L) | 7:52 |
| **PFDoA** | | 92.3 | 0.781 (L) | 8:08 |
| **PFTrDA** | | 91.7 | 0.781 (L) | 8:26 |
| **PFTeDA** | | 94.2 | 0.781 (L) | 8:50 |
| **PFBS** | | 95.1 | 0.781 (L) | 4:58 |
| **PFPeS** | | 106 | 0.781 (L) | 5:30 |
| **PFHxS** | | 107 | 0.781 (L) | |
| **PFHpS** | | 94.7 | 0.781 (L) | 7:09 |
| **PFOS** | | 228 | 0.781 (L) | |
| **PFNS** | | 84.9 | 0.781 (L) | 7:57 |
| **PFDS** | | 91.3 | 0.781 (L) | 8:14 |
| **PFDoS** | | 75.3 | 0.781 (L) | 9:00 |
| **4:2 FTS** | | 391 | 3.13 (L) | 4:54 |
| **6:2 FTS** | | 331 | 2.81 (L) | 5:53 |
| **8:2 FTS** | | 372 | 3.13 (L) | 7:23 |
| **PFOSA** | | 97.3 | 0.781 (L) | |
| **N-MeFOSA** | | 109 | 0.899 (L) | |
| **N-EtFOSA** | | 213 | 1.95 (L) | |
| **MeFOSAA** | | 104 | 0.781 (L) | |
| **EtFOSAA** | | 90.3 | 0.781 (L) | |
| **N-MeFOSE** | | 970 | 7.81 (L) | |
| **N-EtFOSE** | | 727 | 5.86 (L) | |
| **HFPO-DA** | | 378 | 2.97 (L) | 5:10 |
| **ADONA** | | 427 | 3.13 (L) | 5:41 |
| **9Cl-PF3ONS** | | 419 | 3.13 (L) | 7:52 |
| **11Cl-PF3OUdS** | | 402 | 3.13 (L) | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72596-104_Form1A_FC0L_212S40_SJ2758849.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL7-WAT-BULK-03-050720 (MSD)**
**Sample Collection: 07-May-2020 13:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | WG72596-104 i (MSD) |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.512 L |
| **Extraction Date:** | 24-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 01:42:23 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 40** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 18 |
| **Concentration Units:** | ng absolute | **Cal. Ver. Data Filename:** | FC0L_212 S: 13 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 37.6 | 94.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.7 | 104 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.70 | 97.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.79 | 97.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.46 | 94.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.48 | 89.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.93 | 98.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.39 | 87.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.54 | 90.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.39 | 67.9 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.90 | 99.0 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.13 | 91.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.53 | 95.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.4 | 86.8 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 15.8 | 78.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.1 | 85.5 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.24 | 92.4 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.11 | 71.1 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.08 | 70.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.2 | 95.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.3 | 102 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.8 | 87.8 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 84.8 | 84.8 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 35.2 | 88.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

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Report Filename: PFC_FC_LC_PFAS_WG72596-104_Form2_FC0L_212S40_SJ2758849.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87909.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3B.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3B_GS87909.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87909.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87909.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_208 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 26-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 22:05:58 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:53 | 40.0 | 38.9 | 97.4 |
| **PFPeA** | | 4:25 | 20.0 | 19.2 | 96.2 |
| **PFHxA** | | 5:01 | 10.0 | 9.53 | 95.3 |
| **PFHpA** | | 5:28 | 10.0 | 9.53 | 95.3 |
| **PFOA** | | 6:11 | 10.0 | 9.14 | 91.4 |
| **PFNA** | | 7:02 | 10.0 | 9.65 | 96.5 |
| **PFDA** | | 7:33 | 10.0 | 9.14 | 91.4 |
| **PFUnA** | | 7:52 | 10.0 | 9.43 | 94.3 |
| **PFDoA** | | 8:08 | 10.0 | 10.3 | 103 |
| **PFTrDA** | | 8:26 | 10.0 | 10.1 | 101 |
| **PFTeDA** | | 8:50 | 10.0 | 10.1 | 101 |
| **PFBS** | | 4:58 | 10.0 | 9.58 | 95.8 |
| **PFPeS** | | 5:29 | 10.0 | 10.3 | 103 |
| **PFHxS** | | 6:17 | 10.0 | 9.38 | 93.8 |
| **PFHpS** | | 7:09 | 10.0 | 9.71 | 97.1 |
| **PFOS** | | 7:38 | 10.0 | 8.74 | 87.4 |
| **PFNS** | | 7:57 | 10.0 | 8.06 | 80.6 |
| **PFDS** | | 8:14 | 10.0 | 9.49 | 94.9 |
| **PFDoS** | | 9:00 | 10.0 | 9.89 | 98.9 |
| **4:2 FTS** | | 4:54 | 40.0 | 43.6 | 109 |
| **6:2 FTS** | | 5:53 | 36.0 | 35.1 | 97.5 |
| **8:2 FTS** | | 7:23 | 40.0 | 39.2 | 98.1 |
| **PFOSA** | | 8:44 | 10.0 | 10.1 | 101 |
| **N-MeFOSA** | | 10:10 | 11.5 | 12.0 | 104 |
| **N-EtFOSA** | | 10:27 | 25.0 | 23.9 | 95.5 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.6 | 106 |
| **EtFOSAA** | | 7:45 | 10.0 | 10.2 | 102 |
| **N-MeFOSE** | | 10:03 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:20 | 75.0 | 75.3 | 100 |
| **HFPO-DA** | | 5:10 | 40.0 | 31.9 | 79.7 |
| **ADONA** | | 5:41 | 40.0 | 41.3 | 103 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 44.0 | 110 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 44.3 | 111 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_208S12__Form4A_SJ2758677.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_208 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 26-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 22:05:58 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.5 | 98.8 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 21.2 | 106 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.7 | 107 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.1 | 101 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.07 | 101 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.29 | 106 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.82 | 96.4 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 4.85 | 97.0 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.63 | 92.7 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.95 | 108 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.6 | 106 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 18.9 | 94.3 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 21.2 | 106 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 22.7 | 113 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 9.73 | 97.3 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 10.5 | 105 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 10.5 | 105 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 20.2 | 101 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 20.0 | 99.8 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 105 | 105 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 111 | 111 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 38.7 | 96.7 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_208S12__Form4B_SJ2758677.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_208 S: 38 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 27-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 03:44:25 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:53 | 40.0 | 39.1 | 97.9 |
| **PFPeA** | | 4:25 | 20.0 | 19.1 | 95.6 |
| **PFHxA** | | 5:01 | 10.0 | 9.50 | 95.0 |
| **PFHpA** | | 5:28 | 10.0 | 8.91 | 89.1 |
| **PFOA** | | 6:11 | 10.0 | 9.12 | 91.2 |
| **PFNA** | | 7:02 | 10.0 | 9.39 | 93.9 |
| **PFDA** | | 7:33 | 10.0 | 9.04 | 90.4 |
| **PFUnA** | | 7:52 | 10.0 | 10.6 | 106 |
| **PFDoA** | | 8:08 | 10.0 | 9.88 | 98.8 |
| **PFTrDA** | | 8:26 | 10.0 | 8.94 | 89.4 |
| **PFTeDA** | | 8:50 | 10.0 | 9.41 | 94.1 |
| **PFBS** | | 4:58 | 10.0 | 9.54 | 95.4 |
| **PFPeS** | | 5:29 | 10.0 | 10.5 | 105 |
| **PFHxS** | | 6:17 | 10.0 | 9.85 | 98.5 |
| **PFHpS** | | 7:09 | 10.0 | 9.88 | 98.8 |
| **PFOS** | | 7:38 | 10.0 | 9.08 | 90.8 |
| **PFNS** | | 7:57 | 10.0 | 10.4 | 104 |
| **PFDS** | | 8:14 | 10.0 | 9.64 | 96.4 |
| **PFDoS** | | 9:00 | 10.0 | 10.0 | 100 |
| **4:2 FTS** | | 4:54 | 40.0 | 43.9 | 110 |
| **6:2 FTS** | | 5:53 | 36.0 | 36.5 | 101 |
| **8:2 FTS** | | 7:23 | 40.0 | 39.9 | 99.7 |
| **PFOSA** | | 8:44 | 10.0 | 9.82 | 98.2 |
| **N-MeFOSA** | | 10:10 | 11.5 | 12.1 | 105 |
| **N-EtFOSA** | | 10:27 | 25.0 | 23.4 | 93.4 |
| **MeFOSAA** | | 7:36 | 10.0 | 9.78 | 97.8 |
| **EtFOSAA** | | 7:44 | 10.0 | 9.95 | 99.5 |
| **N-MeFOSE** | | 10:02 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:20 | 75.0 | 76.7 | 102 |
| **HFPO-DA** | | 5:10 | 40.0 | 33.5 | 83.8 |
| **ADONA** | | 5:41 | 40.0 | 43.3 | 108 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 45.0 | 112 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 44.1 | 110 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_208S38__Form4A_SJ2758709.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_208 S: 38 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 27-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 03:44:25 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.2 | 98.0 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 21.4 | 107 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.5 | 105 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.7 | 107 |
| **13C8-PFOA** | | 6:11 | 10.0 | 9.86 | 98.6 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.97 | 99.5 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.30 | 106 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.70 | 94.1 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.06 | 101 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.80 | 96.1 |
| **13C3-PFBS** | | 4:58 | 9.18 | 10.2 | 111 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.1 | 101 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 19.1 | 95.6 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 20.3 | 101 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 23.3 | 117 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 9.57 | 95.7 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 9.92 | 99.2 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 10.1 | 101 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 20.1 | 101 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 20.1 | 100 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 94.0 | 94.0 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 95.0 | 95.0 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 37.2 | 93.0 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 08-Jul-2020 07:48:27; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_208S38__Form4B_SJ2758709.html; Workgroup: WG72597; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 13 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 19:50:50 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:52 | 40.0 | 38.6 | 96.5 |
| **PFPeA** | | 4:25 | 20.0 | 19.2 | 96.0 |
| **PFHxA** | | 5:01 | 10.0 | 9.76 | 97.6 |
| **PFHpA** | | 5:29 | 10.0 | 9.85 | 98.5 |
| **PFOA** | | 6:12 | 10.0 | 9.55 | 95.5 |
| **PFNA** | | 7:03 | 10.0 | 9.85 | 98.5 |
| **PFDA** | | 7:33 | 10.0 | 9.13 | 91.3 |
| **PFUnA** | | 7:53 | 10.0 | 9.53 | 95.3 |
| **PFDoA** | | 8:09 | 10.0 | 9.81 | 98.1 |
| **PFTrDA** | | 8:27 | 10.0 | 8.87 | 88.7 |
| **PFTeDA** | | 8:51 | 10.0 | 9.98 | 99.8 |
| **PFBS** | | 4:59 | 10.0 | 9.54 | 95.4 |
| **PFPeS** | | 5:30 | 10.0 | 10.5 | 105 |
| **PFHxS** | | 6:18 | 10.0 | 9.48 | 94.8 |
| **PFHpS** | | 7:10 | 10.0 | 9.77 | 97.7 |
| **PFOS** | | 7:39 | 10.0 | 8.70 | 87.0 |
| **PFNS** | | 7:58 | 10.0 | 10.5 | 105 |
| **PFDS** | | 8:15 | 10.0 | 9.76 | 97.6 |
| **PFDoS** | | 9:01 | 10.0 | 9.37 | 93.7 |
| **4:2 FTS** | | 4:54 | 40.0 | 45.0 | 113 |
| **6:2 FTS** | | 5:54 | 36.0 | 34.3 | 95.2 |
| **8:2 FTS** | | 7:24 | 40.0 | 40.4 | 101 |
| **PFOSA** | | 8:42 | 10.0 | 9.97 | 99.7 |
| **N-MeFOSA** | | 10:09 | 11.5 | 11.9 | 103 |
| **N-EtFOSA** | | 10:27 | 25.0 | 24.5 | 98.1 |
| **MeFOSAA** | | 7:37 | 10.0 | 10.9 | 109 |
| **EtFOSAA** | | 7:45 | 10.0 | 10.4 | 104 |
| **N-MeFOSE** | | 10:02 | 100 | 98.3 | 98.3 |
| **N-EtFOSE** | | 10:20 | 75.0 | 77.3 | 103 |
| **HFPO-DA** | | 5:10 | 40.0 | 40.3 | 101 |
| **ADONA** | | 5:42 | 40.0 | 43.1 | 108 |
| **9Cl-PF3ONS** | | 7:53 | 40.0 | 45.3 | 113 |
| **11Cl-PF3OUdS** | | 8:28 | 40.0 | 44.2 | 110 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S13__Form4A_SJ2758818.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 13 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 29-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 19:50:50 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:51 | 40.0 | 39.3 | 98.3 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 22.0 | 110 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 9.98 | 99.8 |
| **13C4-PFHpA** | | 5:29 | 10.0 | 9.81 | 98.1 |
| **13C8-PFOA** | | 6:12 | 10.0 | 10.1 | 101 |
| **13C9-PFNA** | | 7:03 | 5.00 | 4.74 | 94.8 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.62 | 112 |
| **13C7-PFUnA** | | 7:53 | 5.00 | 5.11 | 102 |
| **13C2-PFDoA** | | 8:09 | 5.00 | 5.74 | 115 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.82 | 96.3 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.91 | 108 |
| **13C3-PFHxS** | | 6:18 | 10.0 | 9.96 | 99.6 |
| **13C8-PFOS** | | 7:39 | 10.0 | 10.6 | 106 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 18.7 | 93.5 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 20.7 | 103 |
| **13C2-8:2 FTS** | | 7:24 | 20.0 | 20.9 | 105 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 10.1 | 101 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 10.4 | 104 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.2 | 102 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 20.2 | 101 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 20.9 | 104 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 106 | 106 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 103 | 103 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 37.0 | 92.6 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S13__Form4B_SJ2758818.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 30-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:55:20 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:51 | 40.0 | 38.9 | 97.2 |
| **PFPeA** | | 4:25 | 20.0 | 19.4 | 96.9 |
| **PFHxA** | | 5:01 | 10.0 | 9.37 | 93.7 |
| **PFHpA** | | 5:29 | 10.0 | 9.65 | 96.5 |
| **PFOA** | | 6:12 | 10.0 | 9.14 | 91.4 |
| **PFNA** | | 7:03 | 10.0 | 9.23 | 92.3 |
| **PFDA** | | 7:33 | 10.0 | 9.50 | 95.0 |
| **PFUnA** | | 7:52 | 10.0 | 10.0 | 100 |
| **PFDoA** | | 8:08 | 10.0 | 11.3 | 113 |
| **PFTrDA** | | 8:26 | 10.0 | 10.4 | 104 |
| **PFTeDA** | | 8:50 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:58 | 10.0 | 9.39 | 93.9 |
| **PFPeS** | | 5:30 | 10.0 | 9.94 | 99.4 |
| **PFHxS** | | 6:17 | 10.0 | 9.70 | 97.0 |
| **PFHpS** | | 7:09 | 10.0 | 9.26 | 92.6 |
| **PFOS** | | 7:38 | 10.0 | 8.88 | 88.8 |
| **PFNS** | | 7:57 | 10.0 | 9.10 | 91.0 |
| **PFDS** | | 8:14 | 10.0 | 9.56 | 95.6 |
| **PFDoS** | | 9:00 | 10.0 | 9.31 | 93.1 |
| **4:2 FTS** | | 4:54 | 40.0 | 42.0 | 105 |
| **6:2 FTS** | | 5:54 | 36.0 | 33.5 | 93.1 |
| **8:2 FTS** | | 7:23 | 40.0 | 40.3 | 101 |
| **PFOSA** | | 8:42 | 10.0 | 9.98 | 99.8 |
| **N-MeFOSA** | | 10:09 | 11.5 | 12.6 | 109 |
| **N-EtFOSA** | | 10:26 | 25.0 | 23.7 | 94.9 |
| **MeFOSAA** | | 7:36 | 10.0 | 9.92 | 99.2 |
| **EtFOSAA** | | 7:45 | 10.0 | 9.42 | 94.2 |
| **N-MeFOSE** | | 10:01 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:19 | 75.0 | 76.1 | 101 |
| **HFPO-DA** | | 5:10 | 40.0 | 39.4 | 98.5 |
| **ADONA** | | 5:41 | 40.0 | 40.9 | 102 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 43.8 | 110 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 43.0 | 107 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S41__Form4A_SJ2758850.html; Workgroup: WG72596; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 30-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:55:20 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:51 | 40.0 | 39.3 | 98.3 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 21.2 | 106 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 9.94 | 99.4 |
| **13C4-PFHpA** | | 5:29 | 10.0 | 10.2 | 102 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.0 | 100 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.93 | 98.6 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.14 | 103 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.97 | 99.3 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 4.47 | 89.5 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.65 | 92.9 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.76 | 106 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.2 | 102 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.1 | 101 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 19.2 | 96.0 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 21.0 | 105 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 21.8 | 109 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 9.47 | 94.7 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 9.69 | 96.9 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 9.77 | 97.7 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 19.6 | 98.1 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 19.7 | 98.7 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 97.1 | 97.1 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 97.4 | 97.4 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 38.5 | 96.3 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 03-Jul-2020 17:56:17; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S41__Form4B_SJ2758850.html; Workgroup: WG72596; Design ID: 3769 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | | Y | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | | Y | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | | | | | Y | | | | Y | | Y | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perflurododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perflurododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | | | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | Accreditation scope |
|---|---|
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000024792

**Contract: 4095**
**Data Package Identification: DPWG72892**

**Analysis WG72601**

## 13 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES** **PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**
**4095:** L33069-1, -3 to -9
L33071-1 & -2

**Project name: P1007/60608807**
**Work order number: 3000024792**

**13 July 2020**

## NARRATIVE

This narrative describes the analysis of ten aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 13th of May, 2020. The temperature of the samples upon receipt ranged from 3.3˚C to 7.2˚C, exceeding the method recommended arrival temperature of 0-4°C for some samples. The samples were stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG72601; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of a procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, and a duplicate OPR). The lab blank and OPRs were prepared using Canadian Springs water as the matrix.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 60 mL of sample was accurately weighed. The samples RC12-FOAM-01-042820, EP21-FOAM-01-042320, EP21-FOAM-01-050520, and EP21-FOAM-02-050520 (SGS AXYS ID: L33069-1, -5, -6, and -7, respectively) were spiked with 10x nominal isotopically labeled quantification standards, extracted, split 1/10th and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. The rest of the samples were spiked with isotopically labeled quantification standards and extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L330XX-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra “test suffix” code. The single letter code per extra work performed was added to the SGS AXYS sample ID

as a suffix, and was combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
N = dilution of the sample extract followed by instrumental analysis

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
U = identifies a compound that was not detected
V = surrogate recovery was not within method specifications
E = exceeds calibrated linear range, see dilution data
X = result reported separately

Results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The samples and QC samples were analyzed in two analysis batches and were carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank, and labeled compound recovery specifications were met with the following exceptions:

Percent recovery of several labeled compounds were below the contract nominal limit and were flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.

**ANALYTICAL DISCUSSION**

The samples RC12-FOAM-01-042820, EP21-FOAM-01-042320, EP21-FOAM-01-050520, EP21-FOAM-02-050520, and WL11-FOAM-01-050520 (SGS AXYS ID: L33069-1, -5, -6, -7, and -9, respectively) were diluted and instrumentally re-analyzed to bring the area response of some targets to within the calibrated linear range of the instrument. The affected target concentrations are reported from the diluted extract (indicated by suffix '**N**' on the SGS AXYS ID). The dilution factors are provided on the reports for the dilution analyses.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72892. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo

13-Jul-20

Signed: Bryan Alonzo, B. Sc., Data Validation Chemist

Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |



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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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SGS AXYS Analytical Services Ltd, 2045 Mills Road W., Sidney, BC, Canada, V8L 5X2. Tel. (250) 655-5800, fax (250) 655-5811.
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**SGS AXYS Analytical Services Ltd.**

[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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## SGS AXYS Analytical Services Ltd.

### Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000024792** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG72892** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72601-101 |
| OPR | WG72601-102 |
| OPR DUPLICATE | WG72601-103 |
| | |
| RC12-FOAM-01-042820 | L33069-1 |
| RC18A-FOAM-FRESH-01-050520 | L33069-3 |
| RC21-FOAM-01-042320 | L33069-4 |
| EP21-FOAM-01-042320 | L33069-5 |
| EP21-FOAM-01-050520 | L33069-6 |
| EP21-FOAM-02-050520 | L33069-7 |
| EP25-FOAM-01-051120 | L33069-8 |
| WL11-FOAM-01-050520 | L33069-9 |
| RC5-WAT-BULK-01-050420 | L33071-1 |
| EP16-WAT-BULK-01-051120 | L33071-2 |

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100
Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100
Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLA-110 | TRIP BLANK |
|---|---|---|---|---|---|---|---|
| EP19-WAT-BULK-01-042920 | W | 4/29/20 | 1445 | HDPE/4 | L33068-25 | X | |
| EP20-WAT-BULK-01-042920 | W | 4/29/20 | 1345 | HDPE/4 | -26 | X | |
| WL6-WAT-BULK-01-042920 | W | 4/29/20 | 1600 | HDPE/4 | -27 | X | |
| WL9-WAT-BULK-01-042920 | W | 4/29/20 | 1630 | HDPE/4 | -28 | X | |
| WL12-WAT-BULK-01-042920 | W | 4/29/20 | 1700 | HDPE/4 | -29 | X | |
| WL15-WAT-BULK-01-042920 | W | 4/29/20 | 1730 | HDPE/4 | -30 | X | |
| VB1-WAT-BULK-01-042920 | W | 4/29/20 | 1740 | HDPE/4 | -31 | X | |
| RC12-FOAM-01-042820 | W | 4/28/20 | 1750 | HDPE/1 | L33069-1 | X | |
| TRIP BLANK | W | 4/30/20 | — | HDPE/1 | L33068-8 | X | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlson | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier:
Waybill No.: 8125 4333 1180

Remarks: High concentration: RC12-FOAM-01-042820

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Lararo
Phone: 612-376-2452
FAX:
E-mail: andrew.lararo@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007-18606187S3

Sampler's Name: Amanda Lannin
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MWA-110 | M25 | MSD | TOPA | TEQ B |
|---|---|---|---|---|---|---|---|---|---|---|
| RC5-WAT-BULK-01-050420 | W | 5/4/20 | 1155 | HDPE/8 | L33071-1 | X | | | X | |
| RC5-WAT-BULK-02-050420 | W | 5/4/20 | 1200 | HDPE/4 | L33068-39 | X | | | | |
| RC5-WAT-BULK-03-050420 | W | 5/4/20 | 1205 | HDPE/8 | -40 | X | X | X | | |
| RC18A-FOAM-OLD-01-050520 | Sludge | 5/5/20 | 1745 | HDPE/2 | L33069-2 | X | | | | |
| RC18A-FOAM-FRESH-01-050520 | W | 5/5/20 | 1800 | HDPE/1 | -3 | X | | | | |
| RC21-FOAM-01-042320 | W | 4/23/20 | 1020 | HDPE/2 | -4 | | | | | |
| EP21-FOAM-01-042320 | W | 4/23/20 | 1200 | HDPE/1 | -5 | | | | | |
| EP21-FOAM-01-050520 | W | 5/5/20 | 1435 | HDPE/1 | -6 | | | | | |
| EP21-FOAM-02-050520 | W | 5/5/20 | 1440 | HDPE/1 | -7 | | | | | |
| EP21-WATSML-01-042420 | W | 4/24/20 | 1515 | HDPE/1 | L33068-75 | | | | | |
| EP25-FOAM-01-051120 | W | 5/11/20 | 1245 | HDPE/2 | -8 | | | | | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature)
Date 13 MAY 2020 Time 10:25

Courier: FedEX
Waybill No.: 8125 4333 1157

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks
RC5-WAT-BULK-03-050420 = MS and MSD
RC18-FOAM-OLD-01-050520, high concentration sludge - run both liquid + solids
RC18-FOAM-FRESH-01-050520, high concentration
RC21-FOAM-01-042320
EP21-FOAM-01-042320
EP21-FOAM-01-050520
EP21-FOAM-02-050520
EP25-FOAM-01-051120
suspected high concentrations

SGS AXYS

2 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECom
Address: 800 Lasalle Ave Ste 1100
Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007 / 60618753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | MLA-110 | MS | MSD | TOPA | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|---|
| WL11-FOAM-01-050520 | W | 5/5/20 | 1120 | HDPE/1 | L33069-9 | X | | | | |
| TRIP BLANK | W | 5/12/20 | — | HDPE/1 | L33068-2 | X | | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| [signature] | 5/12/20 | 1400 | Date 13 MAY 2020 Time 10:25 | FedEX | 8125 4333 1157 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time | | |

Remarks
WL11-FOAM-01-050520: Potential High concentrations

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

*** indicates a required field**

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

| | | | |
|---|---|---|---|
| | **PROJECT/CLIENT INFO** | | **LABORATORY** |
| Facility Code:* | SR0001491 | Program Code (MDH Lab Only): | Lab Name: |
| Project Name:* | Project 1007 | Project Task Code:* PRJ08141 | Address: |
| Project Manager: | Andrew Tarara | | |
| Potential Hazard? | If yes, add information to **Sampler Comments** field | | EPA Lab ID:* |

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**SAMPLE DETAILS** | **ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | Complete **ONLY** if Method is CT, CF, D-T, or D-F: End Date (mm/dd/yyyy) | Complete **ONLY** if Method is CT, CF, D-T, or D-F: End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. / ANALYSIS* | FF / MLA-110 | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-061 | RC12-FOAM-01-042820 | Sample | 28/04/2020 | 1750 | | | | G | | | NW | | Wtr-Surf | | | 1 | | X | L33069-1 | 1 |
| S016-339 | RC18A-FOAM-FRESH-01-050520 | Sample | 05/05/2020 | 1800 | | | | G | | | NW | | Wtr-Surf | | | 1 | | X | L33069-3 | 2 |
| S016-280 | RC21-FOAM-01-042320 | Sample | 23/04/2020 | 1020 | | | | G | | | NW | | Wtr-Surf | | | 2 | | X | L33069-4 | 3 |
| 82-0106-00-303 | EP21-FOAM-01-042320 | Sample | 23/04/2020 | 1200 | | | | G | | | NW | | Wtr-Surf | | | 1 | | X | L33069-5 | 4 |
| 82-0106-00-303 | EP21-FOAM-01-050520 | Sample | 05/05/2020 | 1435 | | | | G | | | NW | | Wtr-Surf | | | 1 | | X | L33069-6 | 5 |
| 82-0106-00-303 | EP21-FOAM-02-050520 | QC-FR | 05/05/2020 | 1440 | | | | G | | | NW | | Wtr-Surf | | | 1 | | X | L33069-7 | 6 |
| 82-0107-00-205 | EP25-FOAM-01-051120 | Sample | 11/05/2020 | 1245 | | | | G | | | NW | | Wtr-Surf | | | 2 | | X | L33069-8 | 7 |
| S016-074 | WL11-FOAM-01-050520 | Sample | 05/05/2020 | 1120 | | | | G | | | NW | | Wtr-Surf | | | 1 | | X | L33069-9 | 8 |
| | | | | | | | | | | | | | | | | | | | | 9 |

| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |
| **Receiving Comments:** | | | |

| **Relinquished By/Affiliation** | **Date/Time** | **Accepted By/Affiliation** | **Date/Time** |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

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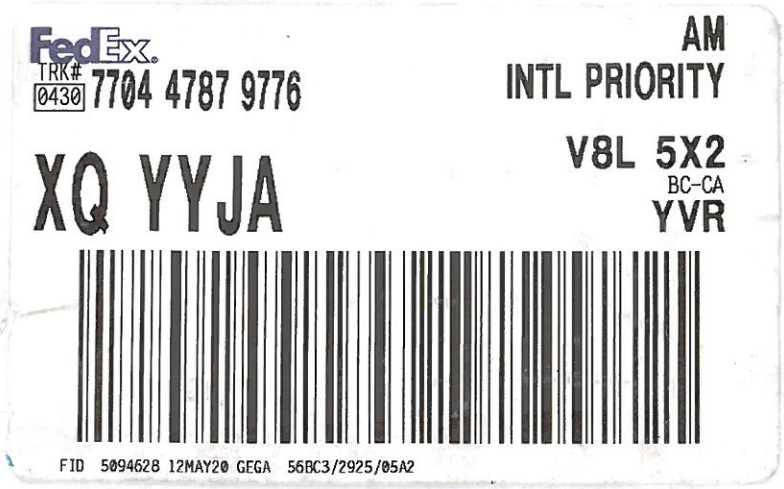
4095

WB27466




10:25
5726
3.3
Bags wet
ice, melting

4095

WB27471

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 61.00 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

Part # 156297-[illegible] 5GBJ3/2925/FE4A

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:

FedEx Express

J201120042402uv

MPS# 0441 7 of 8
3927 8910 7114
Mstr# 3927 8910 7055 0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

RECEIVED
MAY 13 2020
Jennifer Carlson

10:25

5728

Bags wet ice, melting

TB present

5.9°C

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

DPR 03-Jun-20

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: ~~392752798931~~ 392789107066
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27466

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-2, -39, -40, -75 L33069-2 to -9 L33071-1

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 3.3 Celcius bags wet ice, melting

Thermometer ID: 5726

Corrected Temperature: 3.3 Celcius

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107114
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27471

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDINE Signature:

DPR 03-Jun-20

Axys Sample ID's: L33068-4, -9 to -12, -32 to -38 L33069-1

Matrix Type: aq

Condition of Shipping Container: Intact

Thermometer ID: 5728

Corrected Temperature: 5.7 Celcius

Temperature upon Receipt: 5.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*
*04:28 PM*

*Checked 08-Jun-20 DPR*

**Login Number:** L33069
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33069-1** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| RC12-FOAM-01-042820<br>28-APR-20 17:50 | | S016-061<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 60 mL plastic | USD |
| **L33069-2** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| placeholder | | Project #: TIM LOCKREM 2019 | | | |
| Comments: RC18A-FOAM-OLD-01-050520 sample moved to L33140-1 | | | | | |
| **L33069-3** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| RC18A-FOAM-FRESH-01-050520<br>05-MAY-20 18:00 | | S016-339<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 60 mL plastic | USD |
| **L33069-4** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| RC21-FOAM-01-042320<br>23-APR-20 10:20 | | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:28 PM*

**Login Number:** L33069

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33069-5** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| EP21-FOAM-01-042320<br>23-APR-20 12:00 | | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 60 mL plastic | USD |
| **L33069-6** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| EP21-FOAM-01-050520<br>05-MAY-20 14:35 | | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 60 mL plastic | USD |
| **L33069-7** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| EP21-FOAM-02-050520<br>05-MAY-20 14:40 | | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:28 PM*

**Login Number:** L33069

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33069-8** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| EP25-FOAM-01-051120<br>11-MAY-20 12:45 | | 82-0107-00-205<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 60 mL plastic | USD |
| **L33069-9** | | | 13-MAY-20 | | |
| | | Storage: WIF-4, 3E | | | |
| WL11-FOAM-01-050520<br>05-MAY-20 11:20 | | S016-074<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 60 mL plastic | USD |

4085
15 May 2020
RTG/JTC

WB27465

L33068-1, -15 to -23

WB27466

L33068-2, -40, -39, -75

L33069-2 to -9

L33071-1, ~~-2~~ RTG

WB27470

L33068-3, 52, 49, 50, 52, 55, 53, 51, 57, 56, 54.

WB27471

L33068-4, -9 to -12,

-32 to -38, ~~-37, -39~~

www.axysanalytical.com

SGS AXYS



# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Lararo
Phone: 612-376-2452
FAX:
E-mail: andrew.lararo@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007-18606187S3

Sampler's Name: Amanda Lannin
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MWA-110 | M25 | MJID | TOPA | TEQ B |
|---|---|---|---|---|---|---|---|---|---|---|
| RC5-WAT-BULK-01-050420 | W | 5/4/20 | 1155 | HDPE/8 | L33071-1 | X | | | X | |
| RC5-WAT-BULK-02-050420 | W | 5/4/20 | 1200 | HDPE/4 | L33068-39 | X | | | | |
| RC5-WAT-BULK-03-050420 | W | 5/4/20 | 1205 | HDPE/8 | -40 | X | X | X | | |
| RC18A-FOAM-OLD-01-050520 | Sludge | 5/5/20 | 1745 | HDPE/2 | L33069-2 | | | | | |
| RC18A-FOAM-FRESH-01-050520 | W | 5/5/20 | 1800 | HDPE/1 | -3 | X | | | | |
| RC21-FOAM-01-042320 | W | 4/23/20 | 1020 | HDPE/2 | -4 | X | | | | |
| EP21-FOAM-01-042320 | W | 4/23/20 | 1200 | HDPE/1 | -5 | | | | | |
| EP21-FOAM-01-050520 | W | 5/5/20 | 1435 | HDPE/1 | -6 | | | | | |
| EP21-FOAM-02-050520 | W | 5/5/20 | 1440 | HDPE/1 | -7 | | | | | |
| EP21-WATSML-01-042420 | W | 4/24/20 | 1515 | HDPE/1 | L33068-75 | | | | | |
| EP25-FOAM-01-051120 | W | 5/11/20 | 1245 | HDPE/2 | -8 | | | | | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature)
Date 13 MAY 2020 Time 10:25

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Courier: FedEX
Waybill No.: 8125 4333 1157

Remarks
RC5-WAT-BULK-03-050420 = MS and MSD
RC18-FOAM-OLD-01-050520, high concentration; sludge - run both liquid & solids
RC18-FOAM-FRESH-01-050520, high concentration
RC21-FOAM-01-042320
EP21-FOAM-01-042320
EP21-FOAM-01-050520
EP21-FOAM-02-050520
EP25-FOAM-01-051120
suspected high concentrations

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| RC7-WAT-BULK-01-052020 | W | 5/8/20 | 0945 | HDPE/4 | L33068-69 | X | | | | |
| RC20-WAT-BULK-01-052020 | W | 5/8/20 | 1405 | HDPE/4 | -70 | X | | | | |
| EP8-WAT-BULK-01-052020 | W | 5/8/20 | 1310 | HDPE/4 | -71 | X | | | | |
| WL18-WAT-BULK-01-052020 | W | 5/8/20 | 1115 | HDPE/4 | -72 | X | | | | |
| EP16-WAT-BULK-01-051120 | W | 5/11/20 | 1400 | HDPE/8 | L33071-2 | X | | | | X |
| EP17-WAT-BULK-01-051120 | W | 5/11/20 | 1100 | HDPE/4 | -73 | X | | | | |
| EP25-WAT-BULK-01-051120 | W | 5/11/20 | 1230 | HDPE/4 | -74 | X | | | | |
| EQ-ALUGER-01-051220 | W | 5/12/20 | 1330 | HDPE/2 | -13 | X | | | | |
| EQ-PAIL-01-051220 | W | 5/12/20 | 1345 | HDPE/2 | -14 | X | | | | |
| ~~EQ-SAMPLER-01-051220~~ | ~~W~~ | ~~5/12/20~~ | ~~1315~~ | ~~HDPE/2~~ | | ~~X~~ | | | | |
| TripBlank | W | 5/12/20 | — | HDPE/1 | -7 | X | | | X | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlson | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Remarks

Courier: FedEx
Waybill No.: No waybill assigned #137 declared value

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

* indicates a required field

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

FOR LAB USE ONLY

Lab Work Order Sticker

| PROJECT/CLIENT INFO | | LABORATORY |
|---|---|---|
| Facility Code:* | SR0001491 | Program Code (MDH Lab Only): |
| Project Name:* | Project 1007 | Project Task Code:* PRJ08141 |
| Project Manager: | Andrew Tarara | |
| Potential Hazard? | If yes, add information to **Sampler Comments** field | |

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | End Date (mm/dd/yyyy) | End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. | MLA-110 | TOPA | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | FF | ANALYSIS* | | | |
| S016-189 | RC5-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1155 | | | | G | | | NW | | Wtr-Surf | | Includes TOPA Kit | 8 | | x | x | L33071-1 | 1 |
| S016-234 | EP16-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1400 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | x | L33071-2 | 2 |
| | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | | | | | | | 10 |

Complete **ONLY** if Method is CT, CF, D-T, or D-F

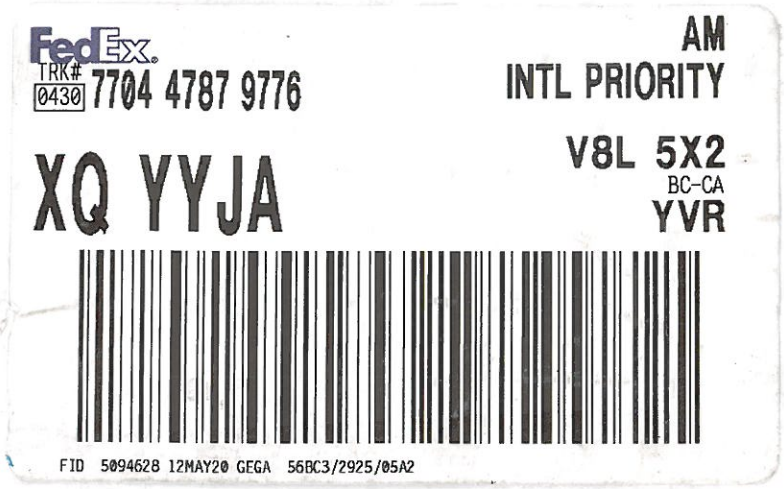
| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |

**Receiving Comments:**

| Relinquished By/Affiliation | Date/Time | Accepted By/Affiliation | Date/Time |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

WB27466




10:25
5726
3.3
Bags wet
ice, melting

RECEIVED
MAY 13 2020

4095

W327474

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 57.90 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:
(CA)

FedEx Express

8 of 8
MPS# 0441 3927 8910 7125
Mstr# 3927 8910 7055
0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

1

RECEIVED
MAY 13 2020

10:25
Bags wet icey melting
5729
7.2°C

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

DPR 03-Jun-20

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: ~~392752798931~~ 392789107066
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27466

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-2, -39, -40, -75 L33069-2 to -9 L33071-1

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 3.3 Celcius bags wet ice, melting

Thermometer ID: 5726

Corrected Temperature: 3.3 Celcius

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107125
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27474

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDILLE Signature:

Axys Sample ID's: L33068-7, -13, -14, -69 to -74 L33071-2

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5729

Corrected Temperature: 7.2 Celcius

Temperature upon Receipt: 7.2 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 04, 2020*
*10:45 AM*

*Checked 04-Jun-20 DPR*

**Login Number:** L33071
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33071-1** | | 13-MAY-20 | | |
| | Storage: prescreens in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC5-WAT-BULK-01-050420<br>04-MAY-20 11:55 | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| EDataDeliv | FC111 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Data Package | FC111 DPKG | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| Aqueous | FC111.POSTOX | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33071-2** | | 13-MAY-20 | | |
| | Storage: prescreens in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP16-WAT-BULK-01-051120<br>11-MAY-20 14:00 | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| EDataDeliv | FC111 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Data Package | FC111 DPKG | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| Aqueous | FC111.POSTOX | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |

www.axysanalytical.com

4085
15 May 2020
RTG/JTC

WB27465

L33068-1, -15 to -23

WB27466

L33068-2, -40, -39, -75

L33069-2 to -9

L33071-1, ~~-2~~ RTG

WB27470

L33068-3, 52, 49, 50, 52, 55, 53, 51, 57, 56, 54.

WB27471

L33068-4, -9 to -12,

-32 to -36, ~~-37, -38~~

4095
15MAY2020
RTG/ JTC

WB27472

L33068-~~X~~

RTG 15MAY2020

L33068-5
392789107077
4095
Not Received

1/1

WB27473

L33068-6, 47, 45, 46, 44, 42, 41, 48, 43
(-41 to -48)

WB27474

L33068-7, 13, 14, -69 to -72, -73, -74

L33068-58, 60, 61, 68, 62, 59, 66, 64, 65, 67, 63
(-58 to -68)

L33071-2

WB27475

L33068-8, -24 to -31
L33069-1

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-FOAM-01-042820**
**Sample Collection:**
**28-Apr-2020 17:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33069-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0566 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:22:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 501 | 281 (L) | 1:49 |
| **PFPeA** | U | | 141 (L) | |
| **PFHxA** | J | 124 | 70.3 (L) | 5:01 |
| **PFHpA** | | 155 | 70.3 (L) | 5:28 |
| **PFOA** | | 9110 | 70.3 (L) | |
| **PFNA** | | 653 | 70.3 (L) | |
| **PFDA** | | 2520 | 70.3 (L) | 7:33 |
| **PFUnA** | | 158 | 70.3 (L) | 7:52 |
| **PFDoA** | J | 74.8 | 70.3 (L) | 8:07 |
| **PFTrDA** | U | | 70.3 (L) | |
| **PFTeDA** | U | | 70.3 (L) | |
| **PFBS** | U | | 70.3 (L) | |
| **PFPeS** | U | | 70.3 (L) | |
| **PFHxS** | | 371 | 70.3 (L) | |
| **PFHpS** | | 1910 | 70.3 (L) | 7:08 |
| **PFOS** | E | | | |
| **PFNS** | | 364 | 70.3 (L) | 7:57 |
| **PFDS** | J | 221 | 70.3 (L) | 8:13 |
| **PFDoS** | U | | 70.3 (L) | |
| **4:2 FTS** | U | | 281 (L) | |
| **6:2 FTS** | U | | 253 (L) | |
| **8:2 FTS** | U | | 281 (L) | |
| **PFOSA** | | 3790 | 70.3 (L) | |
| **N-MeFOSA** | U | | 80.8 (L) | |
| **N-EtFOSA** | U | | 176 (L) | |
| **MeFOSAA** | U | | 70.3 (L) | |
| **EtFOSAA** | | 7700 | 70.3 (L) | |
| **N-MeFOSE** | U | | 703 (L) | |
| **N-EtFOSE** | U | | 527 (L) | |
| **HFPO-DA** | U | | 267 (L) | |
| **ADONA** | U | | 281 (L) | |
| **9Cl-PF3ONS** | U | | 281 (L) | |
| **11Cl-PF3OUdS** | U | | 281 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-1_Form1A_FC0L_207S49_SJ2758266.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-FOAM-01-042820**
**Sample Collection:**
**28-Apr-2020 17:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0566 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:22:20 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 400 | 351 | 87.9 | 1:49 |
| **13C5-PFPeA** | | 200 | 193 | 96.5 | 4:24 |
| **13C5-PFHxA** | | 100 | 96.9 | 96.9 | 5:00 |
| **13C4-PFHpA** | | 100 | 93.3 | 93.3 | 5:28 |
| **13C8-PFOA** | | 100 | 86.1 | 86.1 | 6:11 |
| **13C9-PFNA** | | 50.0 | 42.3 | 84.5 | 7:02 |
| **13C6-PFDA** | | 50.0 | 45.8 | 91.7 | 7:33 |
| **13C7-PFUnA** | | 50.0 | 44.4 | 88.9 | 7:52 |
| **13C2-PFDoA** | | 50.0 | 38.8 | 77.6 | 8:07 |
| **13C2-PFTeDA** | | 50.0 | 27.4 | 54.8 | 8:49 |
| **13C3-PFBS** | | 100 | 98.2 | 98.2 | 4:58 |
| **13C3-PFHxS** | | 100 | 88.7 | 88.7 | 6:16 |
| **13C8-PFOS** | | 100 | 95.0 | 95.0 | 7:38 |
| **13C2-4:2 FTS** | | 200 | 208 | 104 | 4:53 |
| **13C2-6:2 FTS** | | 200 | 188 | 94.0 | 5:53 |
| **13C2-8:2 FTS** | | 200 | 203 | 101 | 7:22 |
| **13C8-PFOSA** | | 100 | 151 | 151 | 8:44 |
| **D3-N-MeFOSA** | | 100 | 148 | 148 | 10:09 |
| **D5-N-EtFOSA** | | 100 | 149 | 149 | 10:27 |
| **D3-MeFOSAA** | | 200 | 289 | 144 | 7:36 |
| **D5-EtFOSAA** | | 200 | 303 | 151 | 7:44 |
| **d7-NMe-FOSE** | | 1000 | 1490 | 149 | 10:01 |
| **d9-NEt-FOSE** | | 1000 | 1460 | 146 | 10:19 |
| **13C3-HFPO-DA** | | 400 | 362 | 90.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-1_Form2_FC0L_207S49_SJ2758266.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC12-FOAM-01-042820**
**Sample Collection:**
**28-Apr-2020 17:50**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33069-1 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0566 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 00:58:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 61** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 391000 | 703 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-FOAM-01-042820**
**Sample Collection:**
**28-Apr-2020 17:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-1 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0566 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 00:58:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 61** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 100 | 96.1 | 96.1 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-1_Form2_FC0L_207S61_SJ2758276.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18A-FOAM-FRESH-01-050520**
**Sample Collection:**
**05-May-2020 18:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0601 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:35:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 96.3 | 26.6 (L) | 1:50 |
| **PFPeA** | U | | 13.3 (L) | |
| **PFHxA** | J | 7.00 | 6.65 (L) | 5:01 |
| **PFHpA** | U | | 6.65 (L) | |
| **PFOA** | | 165 | 6.65 (L) | |
| **PFNA** | | 312 | 6.65 (L) | |
| **PFDA** | | 697 | 6.65 (L) | 7:32 |
| **PFUnA** | | 375 | 6.65 (L) | 7:52 |
| **PFDoA** | | 149 | 6.65 (L) | 8:07 |
| **PFTrDA** | | 29.2 | 6.65 (L) | 8:25 |
| **PFTeDA** | J | 12.8 | 6.65 (L) | 8:49 |
| **PFBS** | U | | 6.65 (L) | |
| **PFPeS** | U | | 6.65 (L) | |
| **PFHxS** | | 26.0 | 6.65 (L) | |
| **PFHpS** | | 15.3 | 6.65 (L) | 7:08 |
| **PFOS** | | 8220 | 6.67 (S) | |
| **PFNS** | J | 21.1 | 9.79 (S) | 7:57 |
| **PFDS** | | 45.2 | 6.65 (L) | 8:13 |
| **PFDoS** | U | | 6.65 (L) | |
| **4:2 FTS** | U | | 26.6 (L) | |
| **6:2 FTS** | U | | 24.0 (L) | |
| **8:2 FTS** | U | | 26.6 (L) | |
| **PFOSA** | | 94.6 | 6.65 (L) | |
| **N-MeFOSA** | U | | 7.65 (L) | |
| **N-EtFOSA** | U | | 16.6 (L) | |
| **MeFOSAA** | | 81.4 | 6.65 (L) | |
| **EtFOSAA** | | 324 | 6.65 (L) | |
| **N-MeFOSE** | U | | 66.5 (L) | |
| **N-EtFOSE** | U | | 49.9 (L) | |
| **HFPO-DA** | U | | 25.3 (L) | |
| **ADONA** | U | | 26.6 (L) | |
| **9Cl-PF3ONS** | U | | 26.6 (L) | |
| **11Cl-PF3OUdS** | U | | 26.6 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-3_Form1A_FC0L_207S50_SJ2758267.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC18A-FOAM-FRESH-01-050520**
**Sample Collection: 05-May-2020 18:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0601 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:35:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.5 | 83.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 92.1 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.03 | 90.3 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.00 | 80.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.29 | 82.9 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.07 | 81.3 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.03 | 80.7 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 3.27 | 65.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 2.89 | 57.8 | 8:07 |
| **13C2-PFTeDA** | V | 5.00 | 2.11 | 42.3 | 8:49 |
| **13C3-PFBS** | | 10.0 | 8.77 | 87.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.93 | 89.3 | 6:16 |
| **13C8-PFOS** | | 10.0 | 8.21 | 82.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 35.6 | 178 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 26.3 | 132 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 23.7 | 118 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.85 | 78.5 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 5.02 | 50.2 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.07 | 50.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 23.4 | 117 | 7:35 |
| **D5-EtFOSAA** | | 20.0 | 21.3 | 106 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 51.2 | 51.2 | 10:01 |
| **d9-NEt-FOSE** | V | 100 | 48.4 | 48.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 33.5 | 83.8 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-3_Form2_FC0L_207S50_SJ2758267.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-FOAM-01-042320**
**Sample Collection:**
**23-Apr-2020 10:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33069-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0694 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:48:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 79.3 | 23.1 (L) | 1:50 |
| **PFPeA** | U | | 11.5 (L) | |
| **PFHxA** | J | 6.51 | 5.76 (L) | 5:01 |
| **PFHpA** | J | 6.17 | 5.76 (L) | 5:28 |
| **PFOA** | | 212 | 5.76 (L) | |
| **PFNA** | | 184 | 5.76 (L) | |
| **PFDA** | | 139 | 5.76 (L) | 7:32 |
| **PFUnA** | | 30.0 | 5.76 (L) | 7:52 |
| **PFDoA** | J | 9.68 | 5.76 (L) | 8:07 |
| **PFTrDA** | U | | 5.76 (L) | |
| **PFTeDA** | U | | 5.76 (L) | |
| **PFBS** | U | | 5.76 (L) | |
| **PFPeS** | U | | 5.76 (L) | |
| **PFHxS** | | 35.3 | 5.76 (L) | |
| **PFHpS** | J | 9.09 | 5.76 (L) | 7:08 |
| **PFOS** | | 1570 | 5.76 (L) | |
| **PFNS** | U | | 5.76 (L) | |
| **PFDS** | U | | 5.76 (L) | |
| **PFDoS** | U | | 5.76 (L) | |
| **4:2 FTS** | U | | 23.1 (L) | |
| **6:2 FTS** | J | 56.1 | 20.7 (L) | 5:52 |
| **8:2 FTS** | U | | 23.1 (L) | |
| **PFOSA** | | 14.3 | 5.76 (L) | |
| **N-MeFOSA** | U | | 6.63 (L) | |
| **N-EtFOSA** | U | | 14.4 (L) | |
| **MeFOSAA** | | 14.7 | 5.76 (L) | |
| **EtFOSAA** | | 25.9 | 5.76 (L) | |
| **N-MeFOSE** | U | | 57.6 (L) | |
| **N-EtFOSE** | U | | 43.2 (L) | |
| **HFPO-DA** | U | | 21.9 (L) | |
| **ADONA** | U | | 23.1 (L) | |
| **9Cl-PF3ONS** | U | | 23.1 (L) | |
| **11Cl-PF3OUdS** | U | | 23.1 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-4_Form1A_FC0L_207S51_SJ2758268.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-FOAM-01-042320**
**Sample Collection:**
**23-Apr-2020 10:20**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0694 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:48:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.1 | 82.7 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 92.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 8.78 | 87.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.26 | 82.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.03 | 80.3 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.02 | 80.3 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.27 | 85.4 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.06 | 81.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.78 | 75.5 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 2.77 | 55.5 | 8:49 |
| **13C3-PFBS** | | 10.0 | 8.51 | 85.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.40 | 84.0 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.14 | 91.4 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 31.2 | 156 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 22.6 | 113 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 23.0 | 115 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.44 | 94.4 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 6.48 | 64.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.92 | 69.2 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 23.4 | 117 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 26.8 | 134 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 57.8 | 57.8 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 70.4 | 70.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 32.1 | 80.2 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-4_Form2_FC0L_207S51_SJ2758268.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-042320**
**Sample Collection:**
**23-Apr-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33069-5 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.0359 L |
| **Extraction Date:** | 25-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:01:19 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_207 S: 52** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 897 | 445 (L) | 1:49 |
| **PFPeA** | U | | 223 (L) | |
| **PFHxA** | U | | 111 (L) | |
| **PFHpA** | U | | 111 (L) | |
| **PFOA** | | 521 | 111 (L) | |
| **PFNA** | | 260 | 111 (L) | |
| **PFDA** | | 2110 | 111 (L) | 7:33 |
| **PFUnA** | | 331 | 111 (L) | 7:52 |
| **PFDoA** | U | | 111 (L) | |
| **PFTrDA** | U | | 111 (L) | |
| **PFTeDA** | U | | 111 (L) | |
| **PFBS** | U | | 111 (L) | |
| **PFPeS** | U | | 111 (L) | |
| **PFHxS** | U | | 111 (L) | |
| **PFHpS** | J | 150 | 111 (L) | 7:08 |
| **PFOS** | E | | | |
| **PFNS** | U | | 111 (L) | |
| **PFDS** | U | | 111 (L) | |
| **PFDoS** | U | | 111 (L) | |
| **4:2 FTS** | U | | 445 (L) | |
| **6:2 FTS** | U | | 401 (L) | |
| **8:2 FTS** | U | | 445 (L) | |
| **PFOSA** | | 463 | 111 (L) | |
| **N-MeFOSA** | U | | 128 (L) | |
| **N-EtFOSA** | U | | 278 (L) | |
| **MeFOSAA** | U | | 111 (L) | |
| **EtFOSAA** | | 1300 | 111 (L) | |
| **N-MeFOSE** | U | | 1110 (L) | |
| **N-EtFOSE** | U | | 835 (L) | |
| **HFPO-DA** | U | | 423 (L) | |
| **ADONA** | U | | 445 (L) | |
| **9Cl-PF3ONS** | U | | 445 (L) | |
| **11Cl-PF3OUdS** | U | | 445 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-5_Form1A_FC0L_207S52_SJ2758269.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-042320**
**Sample Collection:**
**23-Apr-2020 12:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0359 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:01:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 400 | 360 | 89.9 | 1:49 |
| **13C5-PFPeA** | | 200 | 217 | 109 | 4:24 |
| **13C5-PFHxA** | | 100 | 103 | 103 | 5:00 |
| **13C4-PFHpA** | | 100 | 91.5 | 91.5 | 5:28 |
| **13C8-PFOA** | | 100 | 87.2 | 87.2 | 6:10 |
| **13C9-PFNA** | | 50.0 | 45.3 | 90.5 | 7:01 |
| **13C6-PFDA** | | 50.0 | 47.1 | 94.2 | 7:33 |
| **13C7-PFUnA** | | 50.0 | 42.1 | 84.2 | 7:52 |
| **13C2-PFDoA** | | 50.0 | 36.6 | 73.1 | 8:07 |
| **13C2-PFTeDA** | V | 50.0 | 18.1 | 36.3 | 8:49 |
| **13C3-PFBS** | | 100 | 93.1 | 93.1 | 4:58 |
| **13C3-PFHxS** | | 100 | 90.2 | 90.2 | 6:16 |
| **13C8-PFOS** | | 100 | 96.7 | 96.7 | 7:38 |
| **13C2-4:2 FTS** | | 200 | 215 | 108 | 4:53 |
| **13C2-6:2 FTS** | | 200 | 186 | 93.0 | 5:52 |
| **13C2-8:2 FTS** | | 200 | 195 | 97.3 | 7:22 |
| **13C8-PFOSA** | | 100 | 127 | 127 | 8:44 |
| **D3-N-MeFOSA** | | 100 | 128 | 128 | 10:09 |
| **D5-N-EtFOSA** | | 100 | 125 | 125 | 10:26 |
| **D3-MeFOSAA** | | 200 | 225 | 113 | 7:36 |
| **D5-EtFOSAA** | | 200 | 247 | 124 | 7:44 |
| **d7-NMe-FOSE** | | 1000 | 1260 | 126 | 10:01 |
| **d9-NEt-FOSE** | | 1000 | 1250 | 125 | 10:19 |
| **13C3-HFPO-DA** | | 400 | 409 | 102 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-5_Form2_FC0L_207S52_SJ2758269.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-042320**
**Sample Collection:**
**23-Apr-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33069-5 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0359 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:11:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 62** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 216000 | 1110 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-042320**
**Sample Collection:**
**23-Apr-2020 12:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-5 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0359 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:11:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 62** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 100 | 96.2 | 96.2 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-5_Form2_FC0L_207S62_SJ2758277.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 14:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0371 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:14:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | J | 839 | 440 (L) | 1:49 |
| **PFPeA** | U | | 220 (L) | |
| **PFHxA** | U | | 110 (L) | |
| **PFHpA** | U | | 110 (L) | |
| **PFOA** | | 1050 | 110 (L) | |
| **PFNA** | | 999 | 110 (L) | |
| **PFDA** | | 10800 | 110 (L) | 7:33 |
| **PFUnA** | | 952 | 110 (L) | 7:52 |
| **PFDoA** | J | 125 | 110 (L) | 8:07 |
| **PFTrDA** | U | | 110 (L) | |
| **PFTeDA** | U | | 110 (L) | |
| **PFBS** | U | | 110 (L) | |
| **PFPeS** | U | | 110 (L) | |
| **PFHxS** | U | | 110 (L) | |
| **PFHpS** | | 503 | 110 (L) | 7:08 |
| **PFOS** | E | | | |
| **PFNS** | U | | 110 (L) | |
| **PFDS** | U | | 110 (L) | |
| **PFDoS** | U | | 110 (L) | |
| **4:2 FTS** | U | | 440 (L) | |
| **6:2 FTS** | U | | 396 (L) | |
| **8:2 FTS** | U | | 440 (L) | |
| **PFOSA** | | 737 | 110 (L) | |
| **N-MeFOSA** | U | | 127 (L) | |
| **N-EtFOSA** | U | | 275 (L) | |
| **MeFOSAA** | | 365 | 110 (L) | |
| **EtFOSAA** | | 3120 | 110 (L) | |
| **N-MeFOSE** | U | | 1100 (L) | |
| **N-EtFOSE** | U | | 825 (L) | |
| **HFPO-DA** | U | | 418 (L) | |
| **ADONA** | U | | 440 (L) | |
| **9Cl-PF3ONS** | U | | 440 (L) | |
| **11Cl-PF3OUdS** | U | | 440 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-6_Form1A_FC0L_207S53_SJ2758270.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 14:35**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0371 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:14:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 400 | 347 | 86.8 | 1:48 |
| **13C5-PFPeA** | | 200 | 190 | 95.2 | 4:24 |
| **13C5-PFHxA** | | 100 | 93.8 | 93.8 | 5:00 |
| **13C4-PFHpA** | | 100 | 87.4 | 87.4 | 5:28 |
| **13C8-PFOA** | | 100 | 87.4 | 87.4 | 6:10 |
| **13C9-PFNA** | | 50.0 | 40.9 | 81.7 | 7:01 |
| **13C6-PFDA** | | 50.0 | 44.3 | 88.5 | 7:33 |
| **13C7-PFUnA** | | 50.0 | 47.4 | 94.8 | 7:52 |
| **13C2-PFDoA** | | 50.0 | 32.9 | 65.8 | 8:07 |
| **13C2-PFTeDA** | V | 50.0 | 9.46 | 18.9 | 8:49 |
| **13C3-PFBS** | | 100 | 93.5 | 93.5 | 4:58 |
| **13C3-PFHxS** | | 100 | 85.9 | 85.9 | 6:16 |
| **13C8-PFOS** | | 100 | 99.9 | 99.9 | 7:37 |
| **13C2-4:2 FTS** | | 200 | 225 | 112 | 4:53 |
| **13C2-6:2 FTS** | | 200 | 179 | 89.7 | 5:52 |
| **13C2-8:2 FTS** | | 200 | 149 | 74.7 | 7:22 |
| **13C8-PFOSA** | | 100 | 181 | 181 | 8:44 |
| **D3-N-MeFOSA** | | 100 | 167 | 167 | 10:09 |
| **D5-N-EtFOSA** | | 100 | 139 | 139 | 10:26 |
| **D3-MeFOSAA** | | 200 | 274 | 137 | 7:36 |
| **D5-EtFOSAA** | | 200 | 384 | 192 | 7:44 |
| **d7-NMe-FOSE** | | 1000 | 1530 | 153 | 10:01 |
| **d9-NEt-FOSE** | | 1000 | 1360 | 136 | 10:19 |
| **13C3-HFPO-DA** | | 400 | 356 | 88.9 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-6_Form2_FC0L_207S53_SJ2758270.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 14:35**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33069-6 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0371 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:24:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 63** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 904000 | 1100 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-6_Form1A_FC0L_207S63_SJ2758278.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 14:35**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-6 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0371 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:24:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 63** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 100 | 87.7 | 87.7 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_L33069-6_Form2_FC0L_207S63_SJ2758278.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-02-050520**
**Sample Collection:**
**05-May-2020 14:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:27:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 830 | 398 (L) | 1:49 |
| **PFPeA** | U | | 199 (L) | |
| **PFHxA** | U | | 99.5 (L) | |
| **PFHpA** | U | | 99.5 (L) | |
| **PFOA** | | 1070 | 99.5 (L) | |
| **PFNA** | | 1000 | 99.5 (L) | |
| **PFDA** | | 10400 | 99.5 (L) | 7:33 |
| **PFUnA** | | 1100 | 99.5 (L) | 7:52 |
| **PFDoA** | J | 144 | 99.5 (L) | 8:07 |
| **PFTrDA** | U | | 99.5 (L) | |
| **PFTeDA** | U | | 99.5 (L) | |
| **PFBS** | U | | 99.5 (L) | |
| **PFPeS** | U | | 99.5 (L) | |
| **PFHxS** | U | | 99.5 (L) | |
| **PFHpS** | | 498 | 99.5 (L) | 7:08 |
| **PFOS** | E | | | |
| **PFNS** | U | | 99.5 (L) | |
| **PFDS** | U | | 99.5 (L) | |
| **PFDoS** | U | | 99.5 (L) | |
| **4:2 FTS** | U | | 398 (L) | |
| **6:2 FTS** | U | | 358 (L) | |
| **8:2 FTS** | U | | 398 (L) | |
| **PFOSA** | | 692 | 99.5 (L) | |
| **N-MeFOSA** | U | | 114 (L) | |
| **N-EtFOSA** | U | | 249 (L) | |
| **MeFOSAA** | | 358 | 99.5 (L) | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | U | | 995 (L) | |
| **N-EtFOSE** | U | | 747 (L) | |
| **HFPO-DA** | U | | 378 (L) | |
| **ADONA** | U | | 398 (L) | |
| **9Cl-PF3ONS** | U | | 398 (L) | |
| **11Cl-PF3OUdS** | U | | 398 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; X = result reported separately; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-7_Form1A_FC0L_207S54_SJ2758271.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP21-FOAM-02-050520**
**Sample Collection:**
**05-May-2020 14:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:27:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 400 | 393 | 98.3 | 1:49 |
| **13C5-PFPeA** | | 200 | 219 | 109 | 4:24 |
| **13C5-PFHxA** | | 100 | 106 | 106 | 5:00 |
| **13C4-PFHpA** | | 100 | 107 | 107 | 5:28 |
| **13C8-PFOA** | | 100 | 100 | 100 | 6:10 |
| **13C9-PFNA** | | 50.0 | 48.6 | 97.2 | 7:01 |
| **13C6-PFDA** | | 50.0 | 53.4 | 107 | 7:33 |
| **13C7-PFUnA** | | 50.0 | 49.9 | 99.9 | 7:52 |
| **13C2-PFDoA** | | 50.0 | 41.5 | 83.1 | 8:07 |
| **13C2-PFTeDA** | V | 50.0 | 11.9 | 23.9 | 8:49 |
| **13C3-PFBS** | | 100 | 103 | 103 | 4:58 |
| **13C3-PFHxS** | | 100 | 96.9 | 96.9 | 6:16 |
| **13C8-PFOS** | | 100 | 109 | 109 | 7:37 |
| **13C2-4:2 FTS** | | 200 | 258 | 129 | 4:53 |
| **13C2-6:2 FTS** | | 200 | 203 | 102 | 5:52 |
| **13C2-8:2 FTS** | | 200 | 171 | 85.6 | 7:22 |
| **13C8-PFOSA** | | 100 | 199 | 199 | 8:44 |
| **D3-N-MeFOSA** | | 100 | 184 | 184 | 10:09 |
| **D5-N-EtFOSA** | | 100 | 161 | 161 | 10:26 |
| **D3-MeFOSAA** | | 200 | 292 | 146 | 7:36 |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | | 1000 | 1710 | 171 | 10:01 |
| **d9-NEt-FOSE** | | 1000 | 1500 | 150 | 10:19 |
| **13C3-HFPO-DA** | | 400 | 402 | 101 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-7_Form2_FC0L_207S54_SJ2758271.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP21-FOAM-02-050520**
**Sample Collection:**
**05-May-2020 14:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-7 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:37:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 64** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 862000 | 995 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | D | 2810 | 995 (L) | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP21-FOAM-02-050520**
**Sample Collection:**
**05-May-2020 14:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-7 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:37:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 64** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 100 | 116 | 116 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | D | 200 | 253 | 127 | 7:44 |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-7_Form2_FC0L_207S64_SJ2758279.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP25-FOAM-01-051120**
**Sample Collection:**
**11-May-2020 12:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33069-8 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0628 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:40:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 4900 | 25.5 (L) | 1:50 |
| **PFPeA** | | 70.1 | 12.7 (L) | 4:24 |
| **PFHxA** | | 58.6 | 6.37 (L) | 5:01 |
| **PFHpA** | | 15.3 | 6.37 (L) | 5:28 |
| **PFOA** | | 481 | 6.37 (L) | |
| **PFNA** | | 106 | 6.37 (L) | |
| **PFDA** | | 155 | 6.37 (L) | 7:33 |
| **PFUnA** | | 84.0 | 6.37 (L) | 7:52 |
| **PFDoA** | J | 11.7 | 6.37 (L) | 8:07 |
| **PFTrDA** | U | | 6.37 (L) | |
| **PFTeDA** | U | | 6.37 (L) | |
| **PFBS** | U | | 6.37 (L) | |
| **PFPeS** | U | | 6.37 (L) | |
| **PFHxS** | U | | 6.37 (L) | |
| **PFHpS** | U | | 6.37 (L) | |
| **PFOS** | | 1110 | 6.37 (L) | |
| **PFNS** | U | | 6.37 (L) | |
| **PFDS** | U | | 6.37 (L) | |
| **PFDoS** | U | | 6.37 (L) | |
| **4:2 FTS** | U | | 25.5 (L) | |
| **6:2 FTS** | U | | 22.9 (L) | |
| **8:2 FTS** | U | | 25.5 (L) | |
| **PFOSA** | J | 7.93 | 6.37 (L) | |
| **N-MeFOSA** | U | | 7.32 (L) | |
| **N-EtFOSA** | U | | 15.9 (L) | |
| **MeFOSAA** | | 15.3 | 6.37 (L) | |
| **EtFOSAA** | | 23.5 | 6.37 (L) | |
| **N-MeFOSE** | U | | 63.7 (L) | |
| **N-EtFOSE** | U | | 47.7 (L) | |
| **HFPO-DA** | U | | 24.2 (L) | |
| **ADONA** | U | | 25.5 (L) | |
| **9Cl-PF3ONS** | U | | 25.5 (L) | |
| **11Cl-PF3OUdS** | U | | 25.5 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-8_Form1A_FC0L_207S55_SJ2758272.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP25-FOAM-01-051120**
**Sample Collection:**
**11-May-2020 12:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-8 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0628 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:40:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.6 | 86.4 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 98.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.55 | 95.5 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.27 | 82.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.47 | 84.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.17 | 83.3 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.37 | 87.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 3.96 | 79.2 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 2.89 | 57.8 | 8:07 |
| **13C2-PFTeDA** | V | 5.00 | 1.20 | 24.0 | 8:49 |
| **13C3-PFBS** | | 10.0 | 8.62 | 86.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.98 | 89.8 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.15 | 91.5 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 39.3 | 196 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 28.7 | 144 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 28.0 | 140 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.06 | 80.6 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 6.58 | 65.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 5.54 | 55.4 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 23.0 | 115 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 26.0 | 130 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 64.9 | 64.9 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 59.6 | 59.6 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 35.7 | 89.2 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-8_Form2_FC0L_207S55_SJ2758272.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL11-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 11:20**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:53:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 431 | 39.9 (L) | 1:50 |
| **PFPeA** | U | | 19.9 (L) | |
| **PFHxA** | J | 22.1 | 9.97 (L) | 5:01 |
| **PFHpA** | J | 20.2 | 9.97 (L) | 5:28 |
| **PFOA** | | 1250 | 9.97 (L) | |
| **PFNA** | | 169 | 9.97 (L) | |
| **PFDA** | | 489 | 9.97 (L) | 7:32 |
| **PFUnA** | | 32.3 | 9.97 (L) | 7:51 |
| **PFDoA** | U | | 9.97 (L) | |
| **PFTrDA** | U | | 9.97 (L) | |
| **PFTeDA** | U | | 9.97 (L) | |
| **PFBS** | U | | 9.97 (L) | |
| **PFPeS** | U | | 9.97 (L) | |
| **PFHxS** | | 57.6 | 9.97 (L) | |
| **PFHpS** | | 257 | 9.97 (L) | 7:08 |
| **PFOS** | E | | | |
| **PFNS** | J | 28.8 | 9.97 (L) | 7:56 |
| **PFDS** | U | | 9.97 (L) | |
| **PFDoS** | U | | 9.97 (L) | |
| **4:2 FTS** | U | | 39.9 (L) | |
| **6:2 FTS** | U | | 35.9 (L) | |
| **8:2 FTS** | U | | 39.9 (L) | |
| **PFOSA** | | 225 | 9.97 (L) | |
| **N-MeFOSA** | U | | 11.5 (L) | |
| **N-EtFOSA** | U | | 24.9 (L) | |
| **MeFOSAA** | J | 13.1 | 9.97 (L) | |
| **EtFOSAA** | | 553 | 9.97 (L) | |
| **N-MeFOSE** | U | | 99.7 (L) | |
| **N-EtFOSE** | U | | 74.7 (L) | |
| **HFPO-DA** | U | | 37.9 (L) | |
| **ADONA** | U | | 39.9 (L) | |
| **9Cl-PF3ONS** | U | | 39.9 (L) | |
| **11Cl-PF3OUdS** | U | | 39.9 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-9_Form1A_FC0L_207S56_SJ2758273.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL11-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 11:20**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:53:08 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.6 | 86.4 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.7 | 98.5 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.52 | 95.2 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.98 | 89.8 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.70 | 87.0 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.18 | 83.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.61 | 92.1 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 2.98 | 59.6 | 7:51 |
| **13C2-PFDoA** | V | 5.00 | 2.48 | 49.7 | 8:06 |
| **13C2-PFTeDA** | V | 5.00 | 2.20 | 44.1 | 8:49 |
| **13C3-PFBS** | | 10.0 | 8.85 | 88.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.01 | 90.1 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.60 | 96.0 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 37.6 | 188 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 35.0 | 175 | 5:52 |
| **13C2-8:2 FTS** | | 20.0 | 22.9 | 115 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 14.9 | 149 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 12.6 | 126 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 12.2 | 122 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.3 | 101 | 7:35 |
| **D5-EtFOSAA** | | 20.0 | 26.3 | 131 | 7:43 |
| **d7-NMe-FOSE** | | 100 | 115 | 115 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 130 | 130 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.4 | 86.0 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-9_Form2_FC0L_207S56_SJ2758273.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL11-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 11:20**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33069-9 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:50:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 65** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 87100 | 99.7 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL11-FOAM-01-050520**
**Sample Collection:**
**05-May-2020 11:20**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33069-9 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0401 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 01:50:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 65** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | 10 | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.19 | 91.9 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33069-9_Form2_FC0L_207S65_SJ2758280.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 11:55**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33071-1 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.0666 L |
| **Extraction Date:** | 25-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 26-Jun-2020 **Time:** 00:19:10 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_207 S: 58** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 786 | 24.0 (L) | 1:50 |
| **PFPeA** | | 95.5 | 12.0 (L) | 4:24 |
| **PFHxA** | | 198 | 6.00 (L) | 5:01 |
| **PFHpA** | | 211 | 6.00 (L) | 5:28 |
| **PFOA** | | 1760 | 6.00 (L) | |
| **PFNA** | J | 11.4 | 6.00 (L) | |
| **PFDA** | J | 9.89 | 6.00 (L) | 7:33 |
| **PFUnA** | U | | 6.00 (L) | |
| **PFDoA** | U | | 6.00 (L) | |
| **PFTrDA** | U | | 6.00 (L) | |
| **PFTeDA** | U | | 6.00 (L) | |
| **PFBS** | | 60.4 | 6.00 (L) | 4:58 |
| **PFPeS** | | 73.6 | 6.00 (L) | 5:29 |
| **PFHxS** | | 184 | 6.00 (L) | |
| **PFHpS** | | 47.4 | 6.00 (L) | 7:08 |
| **PFOS** | | 3420 | 6.00 (L) | |
| **PFNS** | U | | 6.00 (L) | |
| **PFDS** | U | | 6.00 (L) | |
| **PFDoS** | U | | 6.00 (L) | |
| **4:2 FTS** | U | | 24.0 (L) | |
| **6:2 FTS** | U | | 21.6 (L) | |
| **8:2 FTS** | U | | 24.0 (L) | |
| **PFOSA** | | 36.3 | 6.00 (L) | |
| **N-MeFOSA** | U | | 6.90 (L) | |
| **N-EtFOSA** | U | | 15.0 (L) | |
| **MeFOSAA** | U | | 6.00 (L) | |
| **EtFOSAA** | | 24.7 | 6.00 (L) | |
| **N-MeFOSE** | U | | 60.0 (L) | |
| **N-EtFOSE** | U | | 45.0 (L) | |
| **HFPO-DA** | U | | 22.8 (L) | |
| **ADONA** | U | | 24.0 (L) | |
| **9Cl-PF3ONS** | U | | 24.0 (L) | |
| **11Cl-PF3OUdS** | U | | 24.0 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33071-1_Form1A_FC0L_207S58_SJ2758274.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 11:55**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33071-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0666 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 00:19:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 58** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.5 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 98.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.82 | 98.2 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.00 | 90.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.88 | 88.8 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.6 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.78 | 95.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.65 | 93.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.55 | 90.9 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.82 | 76.3 | 8:49 |
| **13C3-PFBS** | | 10.0 | 9.77 | 97.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.06 | 90.6 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.67 | 96.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.1 | 105 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 18.5 | 92.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.1 | 106 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.99 | 99.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.60 | 96.0 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 9.26 | 92.6 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.9 | 104 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.0 | 99.8 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 116 | 116 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 102 | 102 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 37.6 | 94.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33071-1_Form2_FC0L_207S58_SJ2758274.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33071-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 00:32:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 59** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 581 | 3.06 (L) | 1:50 |
| **PFPeA** | | 14.6 | 1.53 (L) | 4:24 |
| **PFHxA** | | 16.6 | 0.765 (L) | 5:01 |
| **PFHpA** | | 9.35 | 0.765 (L) | 5:28 |
| **PFOA** | | 83.2 | 0.765 (L) | |
| **PFNA** | J | 0.981 | 0.765 (L) | |
| **PFDA** | U | | 0.765 (L) | |
| **PFUnA** | U | | 0.765 (L) | |
| **PFDoA** | U | | 0.765 (L) | |
| **PFTrDA** | U | | 0.765 (L) | |
| **PFTeDA** | U | | 0.765 (L) | |
| **PFBS** | | 4.15 | 0.765 (L) | 4:58 |
| **PFPeS** | | 3.34 | 0.765 (L) | 5:29 |
| **PFHxS** | | 9.44 | 0.765 (L) | |
| **PFHpS** | | 1.70 | 0.765 (L) | 7:08 |
| **PFOS** | | 134 | 0.765 (L) | |
| **PFNS** | U | | 0.765 (L) | |
| **PFDS** | U | | 0.765 (L) | |
| **PFDoS** | U | | 0.765 (L) | |
| **4:2 FTS** | U | | 3.06 (L) | |
| **6:2 FTS** | U | | 2.76 (L) | |
| **8:2 FTS** | U | | 3.06 (L) | |
| **PFOSA** | U | | 0.765 (L) | |
| **N-MeFOSA** | U | | 0.880 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.765 (L) | |
| **EtFOSAA** | U | | 0.765 (L) | |
| **N-MeFOSE** | U | | 7.65 (L) | |
| **N-EtFOSE** | U | | 5.74 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 3.06 (L) | |
| **9Cl-PF3ONS** | U | | 3.06 (L) | |
| **11Cl-PF3OUdS** | U | | 3.06 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33071-2_Form1A_FC0L_207S59_SJ2758275.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33071-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 26-Jun-2020 **Time:** 00:32:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 59** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 4.11 | 10.3 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 15.5 | 77.4 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.42 | 94.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.64 | 96.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.18 | 91.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.44 | 88.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.39 | 87.7 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.40 | 88.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.06 | 81.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.20 | 63.9 | 8:49 |
| **13C3-PFBS** | | 10.0 | 9.81 | 98.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.14 | 91.4 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.9 | 110 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.9 | 105 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.40 | 94.0 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.54 | 95.4 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 9.23 | 92.3 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.4 | 97.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.8 | 104 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 91.0 | 91.0 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 90.9 | 90.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.2 | 90.4 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33071-2_Form2_FC0L_207S59_SJ2758275.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG72601-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0600 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:09:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 26.7 (L) | |
| **PFPeA** | U | | 13.3 (L) | |
| **PFHxA** | U | | 6.67 (L) | |
| **PFHpA** | U | | 6.67 (L) | |
| **PFOA** | U | | 6.67 (L) | |
| **PFNA** | U | | 6.67 (L) | |
| **PFDA** | U | | 6.67 (L) | |
| **PFUnA** | U | | 6.67 (L) | |
| **PFDoA** | U | | 6.67 (L) | |
| **PFTrDA** | U | | 6.67 (L) | |
| **PFTeDA** | U | | 6.67 (L) | |
| **PFBS** | U | | 6.67 (L) | |
| **PFPeS** | U | | 6.67 (L) | |
| **PFHxS** | U | | 6.67 (L) | |
| **PFHpS** | U | | 6.67 (L) | |
| **PFOS** | U | | 6.67 (L) | |
| **PFNS** | U | | 6.67 (L) | |
| **PFDS** | U | | 6.67 (L) | |
| **PFDoS** | U | | 6.67 (L) | |
| **4:2 FTS** | U | | 26.7 (L) | |
| **6:2 FTS** | U | | 24.0 (L) | |
| **8:2 FTS** | U | | 26.7 (L) | |
| **PFOSA** | U | | 6.67 (L) | |
| **N-MeFOSA** | U | | 7.67 (L) | |
| **N-EtFOSA** | U | | 16.7 (L) | |
| **MeFOSAA** | U | | 6.67 (L) | |
| **EtFOSAA** | U | | 6.67 (L) | |
| **N-MeFOSE** | U | | 66.7 (L) | |
| **N-EtFOSE** | U | | 50.0 (L) | |
| **HFPO-DA** | U | | 25.3 (L) | |
| **ADONA** | U | | 26.7 (L) | |
| **9Cl-PF3ONS** | U | | 26.7 (L) | |
| **11Cl-PF3OUdS** | U | | 26.7 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72601-101_Form1A_FC0L_207S48_SJ2758295.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72601-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0600 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:09:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_207 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.2 | 87.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 101 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.78 | 97.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.95 | 89.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.92 | 89.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.57 | 91.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.25 | 105 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.34 | 107 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 5.05 | 101 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.26 | 85.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.17 | 91.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.82 | 88.2 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.7 | 98.7 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 20.7 | 103 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.5 | 113 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.01 | 90.1 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.38 | 73.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.75 | 77.5 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.6 | 98.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.1 | 101 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 92.3 | 92.3 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 90.4 | 90.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.8 | 86.9 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72601-101_Form2_FC0L_207S48_SJ2758295.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72601-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 21:30:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_207 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.5 | 98.8 | 1:50 |
| **PFPeA** | | 20.0 | 19.5 | 97.6 | 4:24 |
| **PFHxA** | | 10.0 | 9.91 | 99.1 | 5:01 |
| **PFHpA** | | 10.0 | 9.76 | 97.6 | 5:28 |
| **PFOA** | | 10.0 | 8.93 | 89.3 | |
| **PFNA** | | 10.0 | 9.88 | 98.8 | |
| **PFDA** | | 10.0 | 9.30 | 93.0 | 7:33 |
| **PFUnA** | | 10.0 | 9.87 | 98.7 | 7:52 |
| **PFDoA** | | 10.0 | 9.78 | 97.8 | 8:08 |
| **PFTrDA** | | 10.0 | 8.96 | 89.6 | 8:26 |
| **PFTeDA** | | 10.0 | 9.90 | 99.0 | 8:49 |
| **PFBS** | | 10.0 | 9.44 | 94.4 | 4:58 |
| **PFPeS** | | 10.0 | 10.3 | 103 | 5:29 |
| **PFHxS** | | 10.0 | 9.51 | 95.1 | |
| **PFHpS** | | 10.0 | 9.26 | 92.6 | 7:08 |
| **PFOS** | | 10.0 | 8.57 | 85.7 | |
| **PFNS** | | 10.0 | 9.98 | 99.8 | 7:57 |
| **PFDS** | | 10.0 | 8.96 | 89.6 | 8:14 |
| **PFDoS** | | 10.0 | 8.70 | 87.0 | 9:00 |
| **4:2 FTS** | | 40.0 | 42.1 | 105 | 4:53 |
| **6:2 FTS** | | 36.1 | 34.1 | 94.5 | 5:53 |
| **8:2 FTS** | | 40.0 | 37.8 | 94.6 | 7:23 |
| **PFOSA** | | 10.0 | 10.2 | 102 | |
| **N-MeFOSA** | | 11.5 | 11.1 | 96.9 | |
| **N-EtFOSA** | | 25.0 | 21.5 | 86.0 | |
| **MeFOSAA** | | 10.0 | 10.2 | 102 | |
| **EtFOSAA** | | 10.0 | 10.3 | 103 | |
| **N-MeFOSE** | | 100 | 100 | 100 | |
| **N-EtFOSE** | | 75.0 | 78.0 | 104 | |
| **HFPO-DA** | | 38.0 | 37.8 | 99.6 | 5:09 |
| **ADONA** | | 40.0 | 41.6 | 104 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 42.8 | 107 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 40.2 | 101 | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72601-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 21:30:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_207 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.5 | 88.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.5 | 102 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.61 | 96.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.28 | 92.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.81 | 96.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.68 | 93.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.63 | 92.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.80 | 76.1 | 8:49 |
| **13C3-PFBS** | | 10.0 | 9.92 | 99.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.40 | 94.0 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.3 | 103 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.4 | 92.1 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 20.1 | 101 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.4 | 107 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.99 | 89.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.40 | 74.0 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.56 | 75.6 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.4 | 97.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.4 | 97.2 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 89.6 | 89.6 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 87.9 | 87.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.3 | 90.9 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72601-103 (DUP WG72601-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 21:43:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_207 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.6 | 99.1 | 1:50 |
| **PFPeA** | | 20.0 | 19.8 | 99.0 | 4:25 |
| **PFHxA** | | 10.0 | 9.56 | 95.6 | 5:01 |
| **PFHpA** | | 10.0 | 9.65 | 96.5 | 5:28 |
| **PFOA** | | 10.0 | 9.22 | 92.2 | |
| **PFNA** | | 10.0 | 10.2 | 102 | |
| **PFDA** | | 10.0 | 9.20 | 92.0 | 7:33 |
| **PFUnA** | | 10.0 | 9.66 | 96.6 | 7:52 |
| **PFDoA** | | 10.0 | 10.4 | 104 | 8:08 |
| **PFTrDA** | | 10.0 | 9.60 | 96.0 | 8:26 |
| **PFTeDA** | | 10.0 | 10.3 | 103 | 8:50 |
| **PFBS** | | 10.0 | 9.52 | 95.2 | 4:58 |
| **PFPeS** | | 10.0 | 10.2 | 102 | 5:29 |
| **PFHxS** | | 10.0 | 9.57 | 95.7 | |
| **PFHpS** | | 10.0 | 9.29 | 92.9 | 7:08 |
| **PFOS** | | 10.0 | 8.99 | 89.9 | |
| **PFNS** | | 10.0 | 9.55 | 95.5 | 7:57 |
| **PFDS** | | 10.0 | 8.82 | 88.2 | 8:14 |
| **PFDoS** | | 10.0 | 8.04 | 80.4 | 9:00 |
| **4:2 FTS** | | 40.0 | 39.8 | 99.5 | 4:53 |
| **6:2 FTS** | | 36.1 | 34.8 | 96.6 | 5:53 |
| **8:2 FTS** | | 40.0 | 35.8 | 89.6 | 7:22 |
| **PFOSA** | | 10.0 | 9.88 | 98.8 | |
| **N-MeFOSA** | | 11.5 | 11.8 | 103 | |
| **N-EtFOSA** | | 25.0 | 23.1 | 92.6 | |
| **MeFOSAA** | | 10.0 | 10.2 | 102 | |
| **EtFOSAA** | | 10.0 | 9.86 | 98.6 | |
| **N-MeFOSE** | | 100 | 100 | 100 | |
| **N-EtFOSE** | | 75.0 | 78.0 | 104 | |
| **HFPO-DA** | | 38.0 | 40.6 | 107 | 5:09 |
| **ADONA** | | 40.0 | 45.1 | 113 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 44.3 | 111 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 41.2 | 103 | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72601-103_Form8A_SJ2758294.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72601-103 (DUP WG72601-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 25-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 21:43:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_207 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_207 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_207 S: 41 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 98.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.47 | 94.7 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.58 | 95.8 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.12 | 91.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.47 | 89.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.75 | 95.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.58 | 91.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.34 | 86.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.66 | 73.3 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.0 | 100 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.66 | 96.6 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.3 | 103 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.5 | 97.5 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 20.4 | 102 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 23.5 | 117 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.57 | 85.7 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 6.78 | 67.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.78 | 67.8 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 19.3 | 96.5 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.8 | 93.9 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 85.0 | 85.0 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 81.8 | 81.8 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.6 | 86.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72601-103_Form8B_SJ2758294.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72601-102 (A) LAB FLAG [1] | WG72601-102 (A) CONC. FOUND | WG72601-103 LAB FLAG [1] | WG72601-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 39.5 | | 39.6 | 39.6 | 0.352 |
| **PFPeA** | | 19.5 | | 19.8 | 19.7 | 1.38 |
| **PFHxA** | | 9.91 | | 9.56 | 9.73 | 3.50 |
| **PFHpA** | | 9.76 | | 9.65 | 9.70 | 1.16 |
| **PFOA** | | 8.93 | | 9.22 | 9.08 | 3.17 |
| **PFNA** | | 9.88 | | 10.2 | 10.0 | 2.89 |
| **PFDA** | | 9.30 | | 9.20 | 9.25 | 1.05 |
| **PFUnA** | | 9.87 | | 9.66 | 9.77 | 2.21 |
| **PFDoA** | | 9.78 | | 10.4 | 10.1 | 5.80 |
| **PFTrDA** | | 8.96 | | 9.60 | 9.28 | 6.86 |
| **PFTeDA** | | 9.90 | | 10.3 | 10.1 | 3.45 |
| **PFBS** | | 9.44 | | 9.52 | 9.48 | 0.799 |
| **PFPeS** | | 10.3 | | 10.2 | 10.3 | 0.948 |
| **PFHxS** | | 9.51 | | 9.57 | 9.54 | 0.681 |
| **PFHpS** | | 9.26 | | 9.29 | 9.28 | 0.355 |
| **PFOS** | | 8.57 | | 8.99 | 8.78 | 4.71 |
| **PFNS** | | 9.98 | | 9.55 | 9.76 | 4.40 |
| **PFDS** | | 8.96 | | 8.82 | 8.89 | 1.54 |
| **PFDoS** | | 8.70 | | 8.04 | 8.37 | 7.96 |
| **4:2 FTS** | | 42.1 | | 39.8 | 41.0 | 5.60 |
| **6:2 FTS** | | 34.1 | | 34.8 | 34.5 | 2.23 |
| **8:2 FTS** | | 37.8 | | 35.8 | 36.8 | 5.45 |
| **PFOSA** | | 10.2 | | 9.88 | 10.1 | 3.40 |
| **N-MeFOSA** | | 11.1 | | 11.8 | 11.5 | 5.84 |
| **N-EtFOSA** | | 21.5 | | 23.1 | 22.3 | 7.33 |
| **MeFOSAA** | | 10.2 | | 10.2 | 10.2 | 0.748 |
| **EtFOSAA** | | 10.3 | | 9.86 | 10.1 | 4.76 |
| **N-MeFOSE** | | 100 | | 100 | 100 | 0.008 |
| **N-EtFOSE** | | 78.0 | | 78.0 | 78.0 | 0.056 |
| **HFPO-DA** | | 37.8 | | 40.6 | 39.2 | 6.94 |
| **ADONA** | | 41.6 | | 45.1 | 43.3 | 7.91 |
| **9Cl-PF3ONS** | | 42.8 | | 44.3 | 43.6 | 3.52 |
| **11Cl-PF3OUdS** | | 40.2 | | 41.2 | 40.7 | 2.39 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: RPD.xsl; Created: 07-Jul-2020 14:06:33; Application: XMLTransformer-1.18.8;
Report Filename: RPD_FC_LC_PFAS-RPD_WG72601-103_WG72601-102_.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| COMPOUND | LAB FLAG [1] | PERCENT RECOVERY (%) CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | CS7 | CS8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87896.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87896.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87896.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_207 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 25-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:38:21 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:53 | 40.0 | 38.9 | 97.3 |
| **PFPeA** | | 4:25 | 20.0 | 19.3 | 96.6 |
| **PFHxA** | | 5:01 | 10.0 | 9.37 | 93.7 |
| **PFHpA** | | 5:28 | 10.0 | 9.62 | 96.2 |
| **PFOA** | | 6:11 | 10.0 | 9.11 | 91.1 |
| **PFNA** | | 7:02 | 10.0 | 9.20 | 92.0 |
| **PFDA** | | 7:33 | 10.0 | 8.96 | 89.6 |
| **PFUnA** | | 7:52 | 10.0 | 9.62 | 96.2 |
| **PFDoA** | | 8:08 | 10.0 | 9.75 | 97.5 |
| **PFTrDA** | | 8:26 | 10.0 | 9.61 | 96.1 |
| **PFTeDA** | | 8:50 | 10.0 | 10.1 | 101 |
| **PFBS** | | 4:58 | 10.0 | 9.44 | 94.4 |
| **PFPeS** | | 5:29 | 10.0 | 10.2 | 102 |
| **PFHxS** | | 6:17 | 10.0 | 9.27 | 92.7 |
| **PFHpS** | | 7:08 | 10.0 | 9.50 | 95.0 |
| **PFOS** | | 7:38 | 10.0 | 8.98 | 89.8 |
| **PFNS** | | 7:57 | 10.0 | 8.06 | 80.6 |
| **PFDS** | | 8:14 | 10.0 | 9.24 | 92.4 |
| **PFDoS** | | 9:00 | 10.0 | 9.44 | 94.4 |
| **4:2 FTS** | | 4:54 | 40.0 | 43.3 | 108 |
| **6:2 FTS** | | 5:53 | 36.0 | 33.9 | 94.1 |
| **8:2 FTS** | | 7:23 | 40.0 | 38.8 | 97.1 |
| **PFOSA** | | 8:44 | 10.0 | 9.56 | 95.6 |
| **N-MeFOSA** | | 10:09 | 11.5 | 12.6 | 109 |
| **N-EtFOSA** | | 10:27 | 25.0 | 24.6 | 98.3 |
| **MeFOSAA** | | 7:36 | 10.0 | 8.59 | 85.9 |
| **EtFOSAA** | | 7:45 | 10.0 | 8.99 | 89.9 |
| **N-MeFOSE** | | 10:02 | 100 | 99.1 | 99.1 |
| **N-EtFOSE** | | 10:20 | 75.0 | 77.0 | 103 |
| **HFPO-DA** | | 5:10 | 40.0 | 38.8 | 97.0 |
| **ADONA** | | 5:41 | 40.0 | 42.4 | 106 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 44.6 | 111 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 43.1 | 108 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_207S41__Form4A_SJ2758192.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_207 S: 41 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 25-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:38:21 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:52 | 40.0 | 39.5 | 98.7 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 20.9 | 104 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.4 | 104 |
| **13C8-PFOA** | | 6:11 | 10.0 | 9.75 | 97.5 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.23 | 105 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.73 | 115 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.19 | 104 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.52 | 110 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.80 | 95.9 |
| **13C3-PFBS** | | 4:58 | 9.18 | 10.0 | 109 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.3 | 103 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.6 | 106 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 19.5 | 97.5 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 21.3 | 106 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 23.5 | 118 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 9.68 | 96.8 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 9.45 | 94.5 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 9.83 | 98.3 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 18.9 | 94.6 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 19.9 | 99.4 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 98.0 | 98.0 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 97.5 | 97.5 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 37.0 | 92.5 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_207S41__Form4B_SJ2758192.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_207 S: 66 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 26-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:03:10 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:53 | 40.0 | 39.0 | 97.5 |
| **PFPeA** | | 4:25 | 20.0 | 19.1 | 95.7 |
| **PFHxA** | | 5:01 | 10.0 | 9.55 | 95.5 |
| **PFHpA** | | 5:28 | 10.0 | 9.99 | 99.9 |
| **PFOA** | | 6:11 | 10.0 | 9.32 | 93.2 |
| **PFNA** | | 7:02 | 10.0 | 9.76 | 97.6 |
| **PFDA** | | 7:33 | 10.0 | 8.73 | 87.3 |
| **PFUnA** | | 7:52 | 10.0 | 9.36 | 93.6 |
| **PFDoA** | | 8:07 | 10.0 | 9.18 | 91.8 |
| **PFTrDA** | | 8:26 | 10.0 | 9.75 | 97.5 |
| **PFTeDA** | | 8:49 | 10.0 | 9.95 | 99.5 |
| **PFBS** | | 4:58 | 10.0 | 9.51 | 95.1 |
| **PFPeS** | | 5:29 | 10.0 | 10.1 | 101 |
| **PFHxS** | | 6:16 | 10.0 | 9.67 | 96.7 |
| **PFHpS** | | 7:08 | 10.0 | 9.61 | 96.1 |
| **PFOS** | | 7:38 | 10.0 | 8.97 | 89.7 |
| **PFNS** | | 7:57 | 10.0 | 10.4 | 104 |
| **PFDS** | | 8:13 | 10.0 | 9.19 | 91.9 |
| **PFDoS** | | 8:59 | 10.0 | 9.83 | 98.3 |
| **4:2 FTS** | | 4:53 | 40.0 | 43.9 | 110 |
| **6:2 FTS** | | 5:53 | 36.0 | 32.8 | 91.1 |
| **8:2 FTS** | | 7:22 | 40.0 | 40.8 | 102 |
| **PFOSA** | | 8:44 | 10.0 | 9.89 | 98.9 |
| **N-MeFOSA** | | 10:10 | 11.5 | 12.1 | 105 |
| **N-EtFOSA** | | 10:27 | 25.0 | 23.6 | 94.2 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.5 | 105 |
| **EtFOSAA** | | 7:44 | 10.0 | 8.88 | 88.8 |
| **N-MeFOSE** | | 10:02 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:20 | 75.0 | 76.2 | 102 |
| **HFPO-DA** | | 5:09 | 40.0 | 38.3 | 95.7 |
| **ADONA** | | 5:41 | 40.0 | 41.0 | 103 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 41.7 | 104 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 42.2 | 105 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_207S66__Form4A_SJ2758205.html; Workgroup: WG72601; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_207 S: 66 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 26-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:03:10 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:52 | 40.0 | 39.1 | 97.7 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 20.8 | 104 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 9.95 | 99.5 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.5 | 105 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.1 | 101 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.86 | 97.3 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.67 | 113 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.18 | 104 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.28 | 106 |
| **13C2-PFTeDA** | | 8:49 | 5.00 | 4.76 | 95.2 |
| **13C3-PFBS** | | 4:58 | 9.18 | 10.2 | 111 |
| **13C3-PFHxS** | | 6:16 | 10.0 | 10.3 | 103 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.7 | 107 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 19.7 | 98.3 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 21.5 | 108 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 23.2 | 116 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 9.99 | 99.9 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 10.6 | 106 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 10.6 | 106 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 20.3 | 102 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 20.6 | 103 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 103 | 103 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 104 | 104 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 38.3 | 95.9 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 07-Jul-2020 14:02:42; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_207S66__Form4B_SJ2758205.html; Workgroup: WG72601; Design ID: 3769 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | Y | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | | | | | | | Y | Y | Y | Y | | | | | Y | | Y | Y | | | | | | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | | | Y | | Y | | | | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | | Y | Y |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

**Accreditation Scope**
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000026468

**Contract: 4095**
**Data Package Identification: DPWG72962**

**Analysis WG72595**

## 27 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES** **PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**
**4095:** L33068-21 to -40

**Project name: P1007/60608807**
**Work order number: 3000026468**

**27 July 2020**

## NARRATIVE

This narrative describes the analysis of twenty aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 13th of May, 2020. The temperature of the samples upon receipt ranged from 6.4˚C to 8.8˚C, exceeding the method recommended arrival temperature of 0-4°C. The samples were stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG72595; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of a procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, a matrix spike (MS) and duplicate MS. The lab blank and OPR were prepared using Canadian Springs water as the matrix. The MS and duplicate MS were prepared using parent sample RC5-WAT-BULK-03-050420 (SGS AXYS ID: L33068-40).

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 500 mL of sample was accurately weighed, spiked with isotopically labeled quantification standards and extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L33068-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra “test suffix” code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix, and was combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
N = dilution of the sample extract followed by instrumental analysis

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
U = identifies a compound that was not detected
V = surrogate recovery was not within method specifications
E = exceeds calibrated linear range, see dilution data
D = dilution data
X = result reported separately

Results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The samples and QC samples were analyzed in one analysis batch and was carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank, and labeled compound recovery specifications were met with the following exceptions:

Percent recovery of labeled compound $^{13}C_4$-PFBA in several client samples was below the contract nominal limit and was flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.

Percent recovery of several analytes in the Matrix Spike and Matrix Spike duplicate (SGS AXYS ID: WG72595-103 and -104, respectively) were above the contract nominal limit.

**ANALYTICAL DISCUSSION**

The samples RC3-WAT-BULK-01-050420, RC5-WAT-BULK-02-050420, RC5-WAT-BULK-03-050420, the MS and MSD (SGS AXYS ID: L33068-32, -39, -40, WG72595-103 and -104, respectively) were diluted and instrumentally re-analyzed to bring the area response of some targets to within the calibrated linear range of the instrument. The affected target concentrations are reported from the diluted extract (indicated by suffix '**N**' on the SGS AXYS ID). The dilution factors are provided on the reports for the dilution analyses.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG72962. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo — 27-Jul-20

Signed: Bryan Alonzo, B. Sc., Data Validation Chemist — Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.



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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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### Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000026468** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG72962** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72595-101 |
| OPR | WG72595-102 |
| MATRIX SPIKE | WG72595-103 |
| MATRIX SPIKE DUPLICATE | WG72595-104 |
| | |
| RC12-WAT-BULK-01-042920 | L33068-21 |
| RC14-WAT-BULK-01-042920 | L33068-22 |
| RC21-WAT-BULK-01-042920 | L33068-23 |
| EP16-WAT-BULK-01-042920 | L33068-24 |
| EP19-WAT-BULK-01-042920 | L33068-25 |
| EP20-WAT-BULK-01-042920 | L33068-26 |
| WL6-WAT-BULK-01-042920 | L33068-27 |
| WL9-WAT-BULK-01-042920 | L33068-28 |
| WL12-WAT-BULK-01-042920 | L33068-29 |
| WL15-WAT-BULK-01-042920 | L33068-30 |
| VB1-WAT-BULK-01-042920 | L33068-31 |
| RC3-WAT-BULK-01-050420 | L33068-32 |
| EP4-WAT-BULK-01-050420 | L33068-33 |
| EP19-WAT-BULK-01-050420 | L33068-34 |
| BP1-WAT-BULK-01-050420 | L33068-35 |
| VB1-WAT-BULK-01-050420 | L33068-36 |
| VB2-WAT-BULK-01-050420 | L33068-37 |
| VB3-WAT-BULK-01-050420 | L33068-38 |
| RC5-WAT-BULK-02-050420 | L33068-39 |
| RC5-WAT-BULK-03-050420 | L33068-40 |
| | |
| | |
| | |
| | |

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SGS AXYS CLIENT #:

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Project Name/Number: P1007/60618753

Sampler's Name: Alexandria Mn

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLH-110 | TKN BLANK | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-042820 | W | 4/28/20 | 1730 | HDPE/4 | L33068-15 | X | | | | |
| RC12-WAT-BULK-01-042820 | | 4/28/20 | 1800 | | -16 | X | | | | |
| RC14-WAT-BULK-01-042820 | | 4/28/20 | 1830 | | -17 | X | | | | |
| RC21-WAT-BULK-01-042820 | | 4/28/20 | 1900 | | -18 | X | | | | |
| RC3-WAT-BULK-01-042920 | | 4/29/20 | 0900 | | -19 | X | | | | |
| RC7-WAT-BULK-01-042920 | | 4/29/20 | 0945 | | -20 | X | | | | |
| RC12-WAT-BULK-01-042920 | | 4/29/20 | 1030 | | -21 | X | | | | |
| RC14-WAT-BULK-01-042920 | | 4/29/20 | 1145 | | -22 | X | | | | |
| RC21-WAT-BULK-01-042920 | | 4/29/20 | 1130 | | -23 | X | | | | |
| EP16-WAT-BULK-01-042920 | | 4/29/20 | 1530 | | -24 | X | | | | |
| TRIP BLANK | | 4/30/20 | | HDPE/1 | L33068-1 | X | X | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 7/2/20 | 1400 | | 13 MAY 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier:
Waybill No.: 8125 4333 1227

Remarks:

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLA-110 | TRIP BLANK |
|---|---|---|---|---|---|---|---|
| EP19-WAT-BULK-01-042920 | W | 4/29/20 | 1445 | HDPE/4 | L33068-25 | X | |
| EP20-WAT-BULK-01-042920 | W | 4/29/20 | 1345 | HDPE/4 | -26 | X | |
| WL6-WAT-BULK-01-042920 | W | 4/29/20 | 1600 | HDPE/4 | -27 | X | |
| WL9-WAT-BULK-01-042920 | W | 4/29/20 | 1630 | HDPE/4 | -28 | X | |
| WL12-WAT-BULK-01-042920 | W | 4/29/20 | 1700 | HDPE/4 | -29 | X | |
| WL15-WAT-BULK-01-042920 | W | 4/29/20 | 1730 | HDPE/4 | -30 | X | |
| VB1-WAT-BULK-01-042920 | W | 4/29/20 | 1740 | HDPE/4 | -31 | X | |
| RC12-FOAM-01-042820 | W | 4/28/20 | 1750 | HDPE/1 | L33069-1 | X | |
| TRIP BLANK | W | 4/30/20 | — | HDPE/1 | L33068-8 | X | X |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlson
Date 13 May 2020 Time 10:25
Courier
Waybill No. 8125 4333 1180

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Remarks: High concentration: RC12-FOAM-01-042820

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | EB/TB Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-050420 | W | 05/04/20 | 1045 | HDPE/4 | L33068-32 | X | | | |
| EP4-WAT-BULK-01-050420 | | | 1455 | | -33 | X | | | |
| EP19-WAT-BULK-01-050420 | | | 1530 | | -34 | X | | | |
| BP1-WAT-BULK-01-050420 | | | 1530 | | -35 | X | | | |
| VB1-WAT-BULK-01-050420 | | | 1045 | | -36 | X | | | |
| VB2-WAT-BULK-01-050420 | | | 1145 | | -37 | X | | | |
| VB3-WAT-BULK-01-050420 | | | 1300 | | -38 | X | | | |
| TRIP BLANK | | 5/4/20 | — | HDPE/1 | -4 | X | | | X |
| EQ-DIPPER-01-051220 | W | 5/12/20 | 1300 | HDPE/2 | -9 | X | | | |
| EQ-HOSECLAMP-01-051220 | W | 5/12/20 | 1245 | HDPE/2 | -10 | X | | | |
| EQ-ZIPLOCK-01-051220 | W | 5/12/20 | 1230 | HDPE/2 | -11 | X | | | |

Relinquished by (Signature) Date: 5/12/20 Time: 1400
Received by (Signature): Jennifer Carlson Date: 13 May 2020 Time: 10:25

Relinquished by (Signature) Date: Time:
Received by (Signature) Date: Time:

Courier: FedEx
Waybill No.: No waybill assigned

Sample Receipt: $143 declared value

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks

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E-mail: andrew.lararo@aecom.com

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Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007-18606187S3

Sampler's Name: Amanda Lannin
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MWA-110 | M25 | MSD | TOPA | TEQ B |
|---|---|---|---|---|---|---|---|---|---|---|
| RC5-WAT-BULK-01-050420 | W | 5/4/20 | 1155 | HDPE/8 | L33071-1 | X | | | X | |
| RC5-WAT-BULK-02-050420 | W | 5/4/20 | 1200 | HDPE/4 | L33068-39 | X | | | | |
| RC5-WAT-BULK-03-050420 | W | 5/4/20 | 1205 | HDPE/8 | -40 | X | X | X | | |
| RC18A-FOAM-OLD-01-050520 | Sludge | 5/5/20 | 1745 | HDPE/2 | L33069-2 | X | | | | |
| RC18A-FOAM-FRESH-01-050520 | W | 5/5/20 | 1800 | HDPE/1 | -3 | X | | | | |
| RC21-FOAM-01-042320 | W | 4/23/20 | 1020 | HDPE/2 | -4 | | | | | |
| EP21-FOAM-01-042320 | W | 4/23/20 | 1200 | HDPE/1 | -5 | | | | | |
| EP21-FOAM-01-050520 | W | 5/5/20 | 1435 | HDPE/1 | -6 | | | | | |
| EP21-FOAM-02-050520 | W | 5/5/20 | 1440 | HDPE/1 | -7 | | | | | |
| EP21-WATSML-01-042420 | W | 4/24/20 | 1515 | HDPE/1 | L33068-75 | | | | | |
| EP25-FOAM-01-051120 | W | 5/11/20 | 1245 | HDPE/2 | -8 | | | | | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature)
Date 13 MAY 2020 Time 10:25

Courier: FedEX
Waybill No.: 8125 4333 1157

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks
RC5-WAT-BULK-03-050420 = MS and MSD
RC18-FOAM-OLD-01-050520, high concentration; sludge - run both liquid + solids
RC18-FOAM-FRESH-01-050520, high concentration
RC21-FOAM-01-042320
EP21-FOAM-01-042320
EP21-FOAM-01-050520
EP21-FOAM-02-050520
EP25-FOAM-01-051120
suspected high concentrations

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Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007 / 60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MUA-110 | M3 | MS1 | TSA | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|---|
| WL11-FOAM-01-050520 | W | 5/5/20 | 1120 | HDPE/1 | L33069-9 | X | | | | |
| TRIP BLANK | W | 5/12/20 | — | HDPE/1 | L33068-2 | | | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Date 13MAY2020 Time 10:25 | FedEX | 8125 4333 1157 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time | Sample Receipt | |

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks: WL11-FOAM-01-050520: Potential High Concentrations

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Company: AECOM
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Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC17-WAT-BULK-01-050520 | W | 5/5/20 | 0945 | HDPE/4 | L33068-41 | X | | | |
| RC18A-WAT-BULK-01-050520 | W | 5/5/20 | 1730 | HDPE/4 | -42 | X | | | |
| RC18A-WAT-SML-BULK-01-050520 | W | 5/5/20 | 1700 | HDPE/1 | -43 | X | | | |
| RC18-WAT-BULK-01-050520 | W | 5/5/20 | 1030 | HDPE/4 | -44 | X | | | |
| FC1-WAT-BULK-01-050520 | W | 5/5/20 | 1130 | HDPE/4 | -45 | X | | | |
| EP21-WAT-BULK-01-050520 | W | 5/5/20 | 1455 | HDPE/4 | -46 | X | | | |
| WL11-WAT-BULK-01-050520 | W | 5/5/20 | 1125 | HDPE/4 | -47 | X | | | |
| WL15-WAT-BULK-01-050520 | W | 5/5/20 | 1235 | HDPE/4 | -48 | X | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TRIP BLANK | W | | | HDPE/1 | | X | | | X |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlson
Date 13 May 2020 Time 10:25
Courier: FedEx
Waybill No.: 8149 0205 4440

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| WL6-WAT-BULK-01-050720 | W | 5/7/20 | 1500 | HDPE/4 | L33068-49 | X | | | |
| WL7-WAT-BULK-01-050720 | W | 5/7/20 | 1320 | HDPE/4 | -50 | X | | | |
| WL7-WAT-BULK-02-050720 | W | | 1325 ~~1535~~ | HDPE/4 | -51 | X | | | |
| WL7-WAT-BULK-01-050720 | W | | 1330 ~~1530~~ | HDPE/8 | -52 | X | X | X | |
| WL9-WAT-BULK-01-050720 | W | | 1045 ~~1100~~ | HDPE/4 | -53 | X | | | |
| WL9-WAT-EFI-01-050720 | W | | 1100 ~~1045~~ | HDPE/4 | -54 | X | | | |
| WL9-WAT-SML-01-050720 | W | | 1030 | HDPE/1 | -55 | X | | | |
| WL12-WAT-BULK-01-050720 | W | | 1200 | HDPE/4 | -56 | X | | | |
| WL12-WAT-BULK-02-050720 | W | | 1210 | HDPE/4 | -57 | X | | | |
| TRIP BLANK | W | 5/10/20 | — | HDPE/1 | -3 | X | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlson | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier: FedEx
Waybill No.: 825 4333 1249

Remarks: WL7-WAT-BULK-01-050720 - MS+MSD samples

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC16A-WAT-BULK-01-050720 | W | 5/7/20 | 1610 | HDPE/4 | L33068-58 | X | | | |
| RC14-WAT-BULK-01-050720 | W | 5/7/20 | 1245 | HDPE/4 | -59 | X | | | |
| RC21-WAT-BULK-01-050720 | W | | 1215 | HDPE/4 | -60 | X | | | |
| RC21-WAT-BULK-02-050720 | W | | 1220 | HDPE/4 | -61 | X | | | |
| EP20-WAT-BULK-01-050720 | W | | 1435 | HDPE/4 | -62 | X | | | |
| EP20-WAT-EPI-01-050720 | W | | 1430 | HDPE/4 | -63 | X | | | |
| EP20-WAT-SML-01-050720 | W | | 1400 | HDPE/1 | -64 | X | | | |
| EP23-WAT-BULK-01-050720 | W | | 1715 | HDPE/4 | -65 | X | | | |
| EP23-WAT-SML-01-050720 | W | | 1700 | HDPE/1 | -66 | X | | | |
| EP24-WAT-BULK-01-050720 | W | | 1710 | HDPE/4 | -67 | X | | | |
| EP24-WAT-BULK-02-050720 | W | | 1720 | HDPE4 | -68 | X | | | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlsen
Date 13 May 2020 Time 10:25

Courier: FedEx
Waybill No.: 8125 4333 1216

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

TRIP BLANK 5/12/20 HDPE/1 MLA-110 L33068-5

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| RC7-WAT-BULK-01-050820 | W | 5/8/20 | 0945 | HDPE/4 | L33068-69 | X | | | | |
| RC20-WAT-BULK-01-050820 | W | 5/8/20 | 1405 | HDPE/4 | -70 | X | | | | |
| EP8-WAT-BULK-01-050820 | W | 5/8/20 | 1310 | HDPE/4 | -71 | X | | | | |
| WL18-WAT-BULK-01-050820 | W | 5/8/20 | 1115 | HDPE/4 | -72 | X | | | | |
| EP16-WAT-BULK-01-051120 | W | 5/11/20 | 1400 | HDPE/8 | L33071-2 | X | | | | X |
| EP17-WAT-BULK-01-051120 | W | 5/11/20 | 1100 | HDPE/4 | -73 | X | | | | |
| EP25-WAT-BULK-01-051120 | W | 5/11/20 | 1230 | HDPE/4 | -74 | X | | | | |
| EQ-ALUGEK-01-051220 | W | 5/12/20 | 1330 | HDPE/2 | -13 | X | | | | |
| EQ-PALL-01-051220 | W | 5/12/20 | 1345 | HDPE/2 | -14 | X | | | | |
| ~~EQ-SAMPLE-01-051220~~ | ~~W~~ | ~~5/12/20~~ | ~~1315~~ | ~~HDPE/2~~ | | ~~X~~ | | | | |
| TripBlank | W | 5/12/20 | — | HDPE/1 | -7 | X | | | X | |

Relinquished by (Signature): [signature] Date: 5/12/20 Time: 1400
Received by (Signature): Jennifer Carlson Date: 13 May 2020 Time: 10:25

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Remarks

Courier: FedEx
Waybill No.: No waybill assigned
Sample Receipt: #137 declared value

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS

2 of 2

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tavara
Phone: 612-376-2452
FAX:
E-mail: andrew.tavara@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: 60607753

Sampler's Name: Amanda Lannin
Signature:

ANALYSIS REQUESTED: MWA-110

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ~~ID~~ (~~Lab~~ use only) | |
|---|---|---|---|---|---|---|
| EQ-SHOVEL-01-051220 | W | 5/12/20 | 1315 | HDPE/2 | L33068-12 | X |

Relinquished by (Signature) — Date: 5/12/20 Time: 1400
Relinquished by (Signature) — Date: Time:

Received by (Signature): Jennifer Carlson
Date: 13 May 2020 Time: 10:25
Received by (Signature):
Date: Time:

Courier: Fed Ex
Waybill No.: No waybill assigned — $143 declared value

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form revision 2017.0328

* indicates a required field

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

**PROJECT/CLIENT INFO**

Facility Code:* SR0001491

Program Code (MDH Lab Only):

Project Name:* Project 1007

Project Task Code:* PRJ08141

Project Manager: Andrew Tarara

Potential Hazard? If yes, add information to **Sampler Comments** field

**LABORATORY**

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (mm/dd/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | Complete ONLY if Method is CT, CF, D-T, or D-F: End Date (mm/dd/yyyy) | Complete ONLY if Method is CT, CF, D-T, or D-F: End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. / FF: ANALYSIS* | MLA-110 | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIELDQC | 392789107055 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-1 | 1 |
| FIELDQC | 392789107066 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-2 | 2 |
| FIELDQC | 392789107088 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-3 | 3 |
| FIELDQC | 392789107114 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-4 | 4 |
| FIELDQC | 392789107077 | QC-TB | 30/04/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-5 | 5 |
| FIELDQC | 392789107103 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-6 | 6 |
| FIELDQC | 392789107125 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-7 | 7 |
| FIELDQC | 392789107099 | QC-TB | 30/04/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-8 | 8 |
| FIELDQC | EQ-DIPPER-01-051220 | QC-EB | 12/05/2020 | 1300 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-9 | 9 |
| FIELDQC | EQ-HOSECLAMP-01-051220 | QC-EB | 12/05/2020 | 1245 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-10 | 10 |
| FIELDQC | EQ-ZIPLOCK-01-051220 | QC-EB | 12/05/2020 | 1230 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-11 | 11 |
| FIELDQC | EQ-SHOVEL-01-051220 | QC-EB | 12/05/2020 | 1315 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-12 | 12 |
| FIELDQC | EQ-AUGER-01-051220 | QC-EB | 12/05/2020 | 1330 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-13 | 13 |
| FIELDQC | EQ-PAIL-01-051220 | QC-EB | 12/05/2020 | 1345 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-14 | 14 |
| S016-051 | RC3-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-15 | 15 |
| S016-061 | RC12-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1800 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-16 | 16 |
| S016-063 | RC14-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1830 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-17 | 17 |
| S016-280 | RC21-WAT-BULK-01-042820 | Sample | 05/05/2020 | 1900 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-18 | 18 |
| S016-051 | RC3-WAT-BULK-01-042920 | Sample | 05/05/2020 | 0900 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-19 | 19 |
| S016-054 | RC7-WAT-BULK-01-042920 | Sample | 23/04/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-20 | 20 |
| S016-061 | RC12-WAT-BULK-01-042920 | Sample | 23/04/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-21 | 21 |
| S016-063 | RC14-WAT-BULK-01-042920 | Sample | 05/05/2020 | 1145 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-22 | 22 |
| S016-280 | RC21-WAT-BULK-01-042920 | Sample | 05/05/2020 | 1130 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-23 | 23 |
| S016-234 | EP16-WAT-BULK-01-042920 | Sample | 24/04/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-24 | 24 |
| 82-0109-00-453 | EP19-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1445 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-25 | 25 |
| 82-0109-00-454 | EP20-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1345 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-26 | 26 |
| S016-071 | WL6-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1600 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-27 | 27 |
| PS00168 | WL9-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1630 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-28 | 28 |
| PS00169 | WL12-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-29 | 29 |
| PS00171 | WL15-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-30 | 30 |
| S016-281 | VB1-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1740 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-31 | 31 |
| S016-051 | RC3-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-32 | 32 |
| 82-0109-00-209 | EP4-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1455 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-33 | 33 |
| 82-0109-00-453 | EP19-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-34 | 34 |
| 82-0111-00-201 | BP1-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-35 | 35 |
| S016-281 | VB1-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-36 | 36 |
| S016-282 | VB2-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1145 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-37 | 37 |
| S016-316 | VB3-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1300 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-38 | 38 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-189 | RC5-WAT-BULK-02-050420 | QC-FR | 04/05/2020 | 1200 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-39 | 39 |
| S016-189 | RC5-WAT-BULK-03-050420 | QC-FR | 04/05/2020 | 1205 | | | | G | | | NW | | Wtr-Surf | | MS/MSD | 8 | | x | L33068-40 | 40 |
| S016-067 | RC17-WAT-BULK-01-050520 | Sample | 05/05/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-41 | 41 |
| S016-339 | RC18A-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-42 | 42 |
| S016-339 | RC18A-WAT-SML-01-050520 | Sample | 05/05/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-43 | 43 |
| 82-0109-00-208 | RC18-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-44 | 44 |
| S016-315 | FC1-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1130 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-45 | 45 |
| 82-0106-00-303 | EP21-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1455 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-46 | 46 |
| S016-074 | WL11-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1125 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-47 | 47 |
| PS00171 | WL15-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1235 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-48 | 48 |
| S016-071 | WL6-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1500 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-49 | 49 |
| S016-072 | WL7-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1320 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-50 | 50 |
| S016-072 | WL7-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1325 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-51 | 51 |
| S016-072 | WL7-WAT-BULK-03-050720 | QC-FR | 07/05/2020 | 1330 | | | | G | | | NW | | Wtr-Surf | | MS/MSD | 8 | | x | L33068-52 | 52 |
| PS00168 | WL9-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-53 | 53 |
| PS00168 | WL9-WAT-EPI-01-050720 | Sample | 07/05/2020 | 1100 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-54 | 54 |
| PS00168 | WL9-WAT-SML-01-050720 | Sample | 07/05/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-55 | 55 |
| PS00169 | WL12-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1200 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-56 | 56 |
| PS00169 | WL12-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1210 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-57 | 57 |
| S016-314 | RC16A-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1610 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-58 | 58 |
| S016-063 | RC14-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1245 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-59 | 59 |
| S016-280 | RC21-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1215 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-60 | 60 |
| S016-280 | RC21-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1220 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-61 | 61 |
| 82-0109-00-454 | EP20-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1435 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-62 | 62 |
| 82-0109-00-454 | EP20-WAT-EPI-01-050720 | Sample | 07/05/2020 | 1430 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-63 | 63 |
| 82-0109-00-454 | EP20-WAT-SML-01-050720 | Sample | 07/05/2020 | 1400 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-64 | 64 |
| 82-0106-00-302 | EP23-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1715 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-65 | 65 |
| 82-0106-00-302 | EP23-WAT-SML-01-050720 | Sample | 07/05/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-66 | 66 |
| 82-0107-00-204 | EP24-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1710 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-67 | 67 |
| 82-0107-00-204 | EP24-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1720 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-68 | 68 |
| S016-054 | RC7-WAT-BULK-01-050820 | Sample | 08/05/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-69 | 69 |
| S016-276 | RC20-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1405 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-70 | 70 |
| 82-0109-00-211 | EP8-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1310 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-71 | 71 |
| SS00087 | WL18-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1115 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-72 | 72 |
| 82-0109-00-452 | EP17-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1100 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-73 | 73 |
| 82-0107-00-205 | EP25-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1230 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-74 | 74 |
| 82-0106-00-303 | EP21-WAT-SML-01-042420 | Sample | 24/04/2020 | 1515 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-75 | 75 |

| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |

**Receiving Comments:**

| **Relinquished By/Affiliation** | **Date/Time** | **Accepted By/Affiliation** | **Date/Time** |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

ORIGIN ID:SYNA (612) 376-2452
Amanda Canning
Aecom
800 LaSalle ave S
Suite 1100
MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 12MAY20
TOTWGT: 436.85 LB
CAD: 6990377/SSF02110

DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RRCBC 2020 Rev 1

TO **Sample Receiving**
**SGS AXYS ANALYTICAL**
**2045 W MILLS RD**

**SIDNEY, BC V8L5X2**

**CANADA, CA**

(250) 655-5831

**FedEx** Express

**(CA)**

**AWB**

**E**

J2011200424 2Dav

**XQ YYJA**
**AHS**
**PKG:YOUR PKG**

TRK# **3927 8910 7055**
**1 of 8**

Form
0430

**AM**
**INTL PRIORITY**

REF: 60608807-P1007
DESC1:SAMPLES - 30-60 samples, in each cooler, of water in plastic
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 1120.00 USD
CUSTOMS VALUE: 1120.00 USD

SIGN: Amanda Canning
T/C: 0 141083937
D/T: R

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

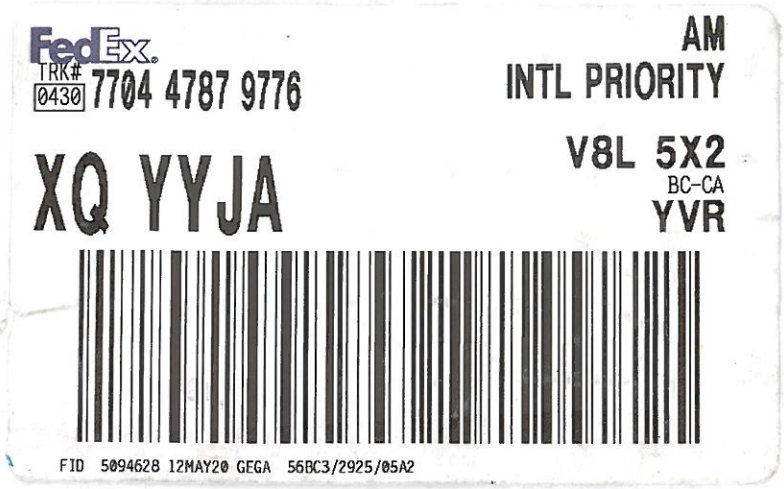
10:25
5730
Bags wet ice, melting
9.0°C

RECEIVED
MAY 13 2020

www.axysanalytical.com

4095

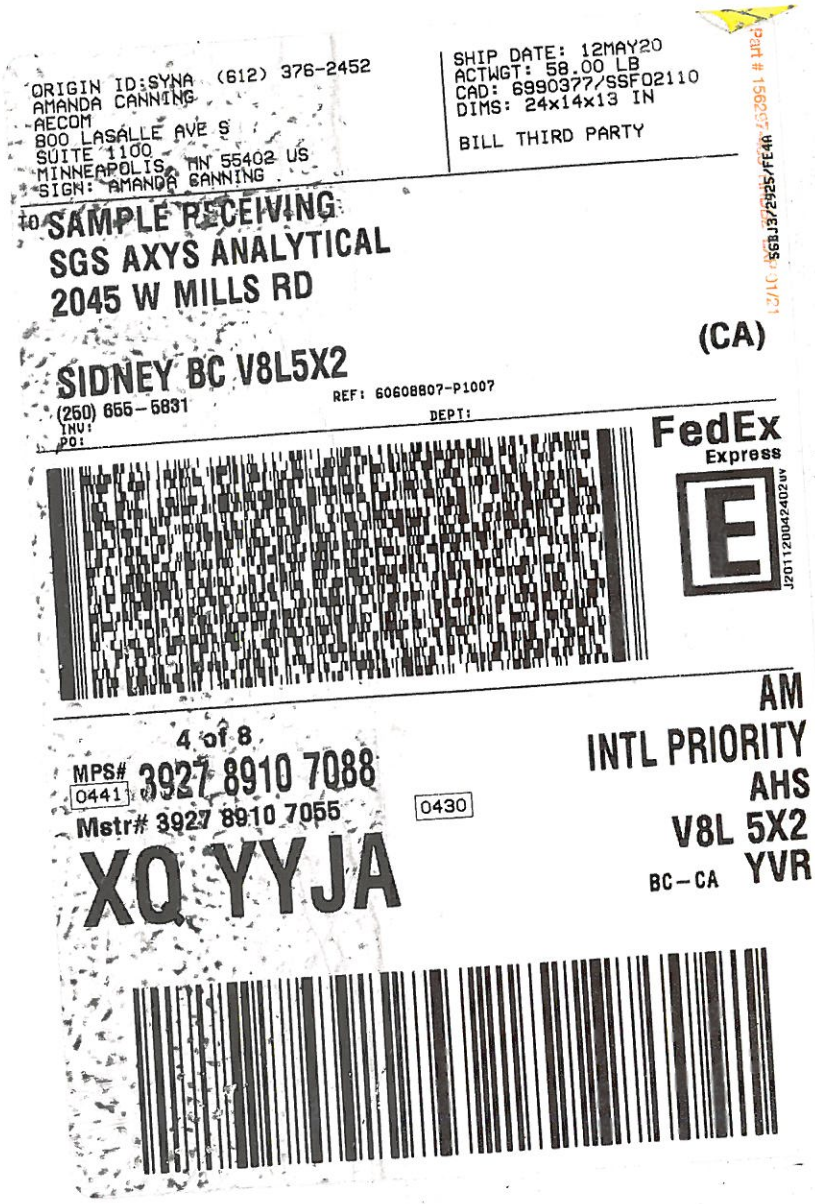
WB27466




10:25
5726
3.3
Bags wet
ice, melting

RECEIVED
MAY 13 2020

4095



ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 58.00 LB
CAD: 6990377/SSFO2110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831
REF: 60608807-P1007
INV:
PO:
DEPT:

FedEx Express

J2011200424O2uv

4 of 8
MPS# 3927 8910 7088
0441
Mstr# 3927 8910 7055
0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

WB27470

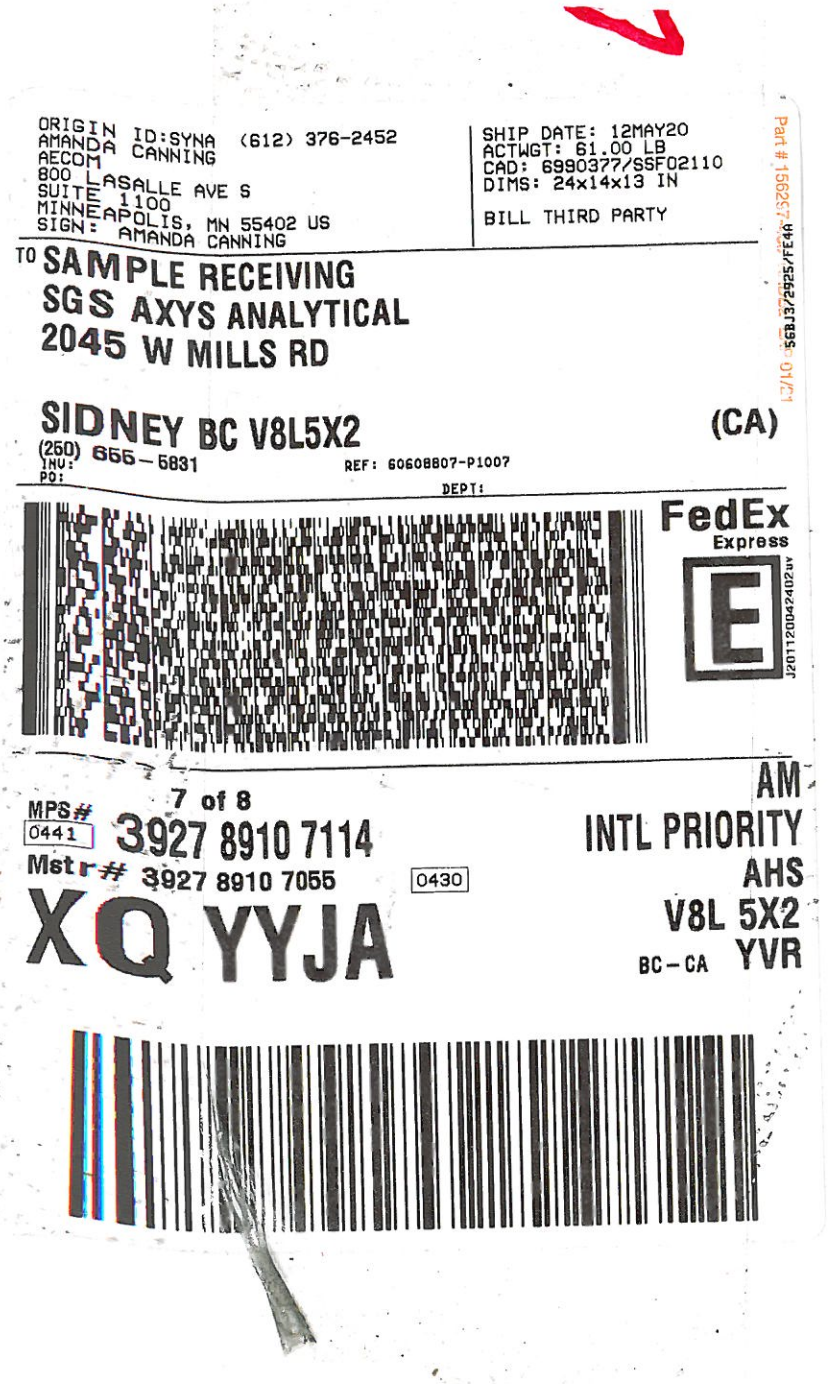
10:25

RECEIVED
MAY 13 2020
Jennifer Carlson

bagged wet ice
melting
7.9°C
5711

4095

WB27471



ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 61.00 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

Part # 156297-[illegible] 5GBJ3/2925/FE4A

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:

FedEx Express

E

J201120042402uv

MPS# 0441 7 of 8
3927 8910 7114
Mstr# 3927 8910 7055 0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

RECEIVED
MAY 13 2020
Jennifer Carlson

10:25

5728

Bags wet ice, melting

TB present

5.9°C

4095

WB27472

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 55.15 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-6831
INV:
PO: REF: 60608807-P1007
DEPT:

FedEx Express

3 of 8
MPS# 0441 3927 8910 7077
Mstr# 3927 8910 7055
0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

10:25
RECEIVED
MAY 13 2020
Jennifer Carlson

bagged wet ice melting
7.8°C
5740

4095

WB27473

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 50.45 LB
CAD: 6990377/SSFO2110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831 REF: 60608807-P1007
INV:
PO: DEPT:

FedEx Express

6 of 8
MPS# 0441 3927 8910 7103
Mstr# 3927 8910 7055 0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

RECEIVED
MAY 13 2020
Jenifer Carlson

8.9°C
5745
Bags wet ice, melted
10:25

4095

W327474

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 57.90 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:
(CA)

FedEx Express

J201120012402uv

8 of 8
MPS# 0441 3927 8910 7125
Mstr# 3927 8910 7055
0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

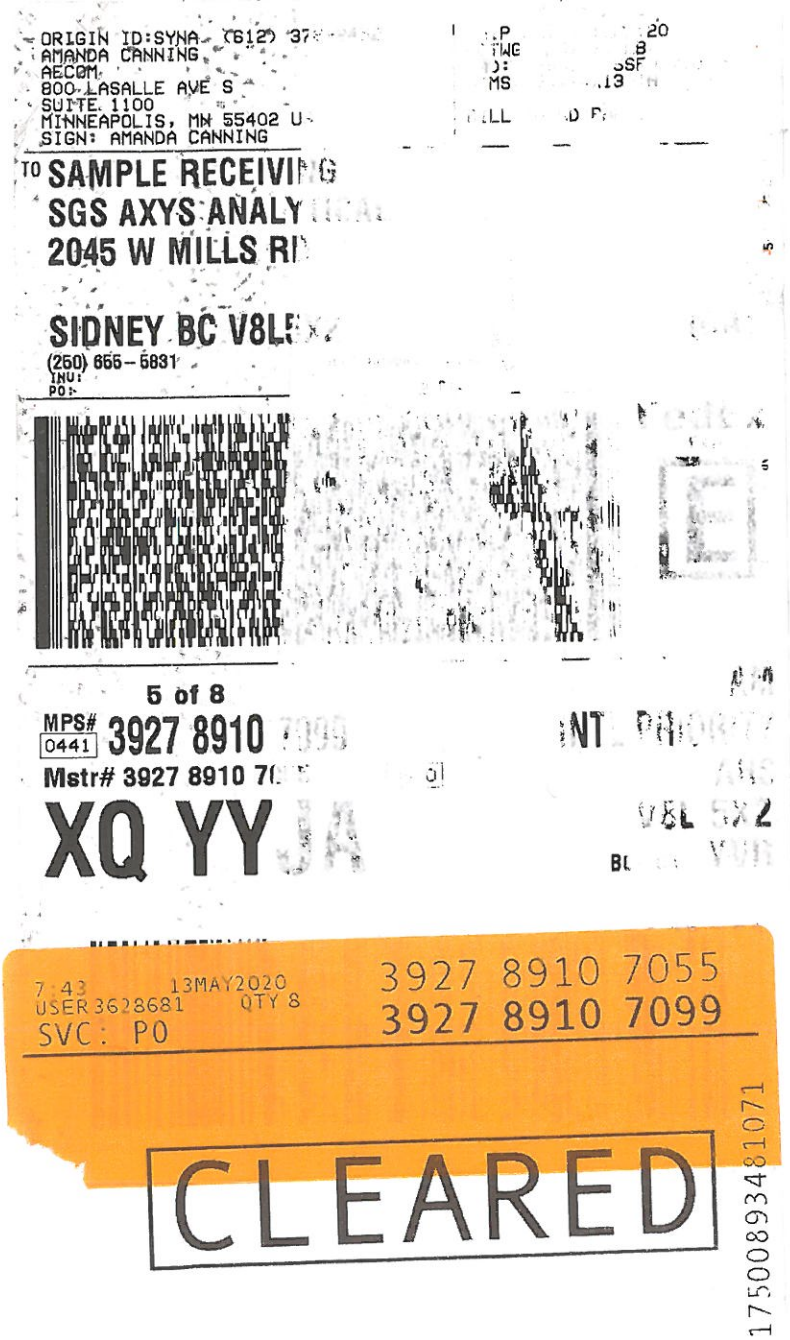
1

RECEIVED
MAY 13 2020

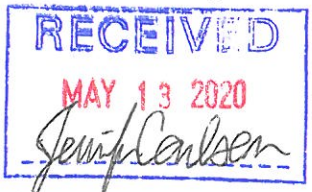
10:25
Bags wet icey melting
5729
7.2°C

4095

WB27475




10:25




bagged wet ice
melting
6.5°C
S713

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107055
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27465

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-1, -15 to -23

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 9 Celcius bags wet ice, melting

Thermometer ID: 5730
Corrected Temperature: 8.8 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

DPR 03-Jun-20

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: ~~392752798931~~ 392789107066
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27466

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-2, -39, -40, -75 L33069-2 to -9 L33071-1

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 3.3 Celcius bags wet ice, melting

Thermometer ID: 5726
Corrected Temperature: 3.3 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No
Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
Sample ID's Yes /No
Collection Location Yes /No
Date & Time Collection Yes /No
Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
Sample Tag Numbers Yes /No
Sample Type Yes /No
Preservative Added Prior to Receipt Yes /No
Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107088
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27470

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: BGENDIVE Signature:

Axys Sample ID's: L33068-3, -49 to -57

Matrix Type: aq

Thermometer ID: 5711

Condition of Shipping Container: Intact

Corrected Temperature: 7.8 Celcius

Temperature upon Receipt: 7.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

| Custody Seals: | | | | | | | |
|---|---|---|---|---|---|---|---|
| Shipping Containers | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |
| Samples | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107114
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27471

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDINE Signature:

Axys Sample ID's: L33068-4, -9 to -12, -32 to -38

Matrix Type: aq

Condition of Shipping Container: Intact

Temperature upon Receipt: 5.9 Celcius bagged wet ice melting

Thermometer ID: 5728
Corrected Temperature: 5.7 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No
Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107077
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27472

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-58 to -68

Matrix Type: aq

Thermometer ID: 5740

Condition of Shipping Container: Intact

Corrected Temperature: 7.5 Celcius

Temperature upon Receipt: 7.8 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

TRIP BLANK NOT RECEIVED (L33068-5)

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107103
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27473

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENTILE Signature:

Axys Sample ID's: L33068-40, -41 to -48

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5745

Corrected Temperature: 8.7 Celcius

Temperature upon Receipt: 8.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107125
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27474

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDILLE Signature:

Axys Sample ID's: L33068-7, -13, -14, -69 to -74 L33071-2

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5729

Corrected Temperature: 7.2 Celcius

Temperature upon Receipt: 7.2 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107099
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27475

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE

Signature:

Axys Sample ID's: L33068-8, -24 to -31

Matrix Type: aq

Condition of Shipping Container: Intact

Temperature upon Receipt: 6.5 Celcius bagged wet ice melting

Thermometer ID: 5713
Corrected Temperature: 6.4 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No
Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Sample Labels Yes /No
Sample Labels Cross Referenced to COC Yes /No
Information Agrees Yes /No
Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

*Checked 08-Jun-20 DPR*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-1** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107055 | FIELDQC | | | |
| 30-APR-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33068-2** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107066 | FIELDQC | | | |
| 12-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33068-3** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107088 | FIELDQC | | | |
| 12-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33068-4** | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | |
| 392789107114 | FIELDQC | | | |
| 04-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | | **Received** | **Due** | **PR** |
|---|---|---|---|---|---|
| **L33068-5** | | | 13-MAY-20 | | |
| 392789107077<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| Comments: Trip blank sample not received | | | | | |
| **L33068-6** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107103<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |
| **L33068-7** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107125<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |
| **L33068-8** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107099<br>30-APR-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33068-9** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-DIPPER-01-051220<br>12-MAY-20 13:00 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-10** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-HOSECLAMP-01-051220<br>12-MAY-20 12:45 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-11** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-ZIPLOCK-01-051220<br>12-MAY-20 12:30 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33068-12** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-SHOVEL-01-051220<br>12-MAY-20 13:15 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-13** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-AUGER-01-051220<br>12-MAY-20 13:30 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-14** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-PAIL-01-051220<br>12-MAY-20 13:45 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-15** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-042820<br>28-APR-20 17:30 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-16** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC12-WAT-BULK-01-042820<br>28-APR-20 18:00 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-17** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-042820<br>28-APR-20 18:30 | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-18** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-042820 | S016-280 | | | |
| 28-APR-20 19:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-19** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-042920 | S016-051 | | | |
| 29-APR-09 09:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-20** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC7-WAT-BULK-01-042920 | S016-054 | | | |
| 29-APR-09 09:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-21** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC12-WAT-BULK-01-042920 | S016-061 | | | |
| 29-APR-09 10:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-22** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-042920 | S016-063 | | | |
| 29-APR-09 11:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-23** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-042920 | S016-280 | | | |
| 29-APR-09 11:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-24** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP16-WAT-BULK-01-042920<br>29-APR-09 15:30 | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-25** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP19-WAT-BULK-01-042920<br>29-APR-09 14:45 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-26** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-BULK-01-042920<br>29-APR-09 13:45 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-27** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL6-WAT-BULK-01-042920 | S016-071 | | | |
| 29-APR-09 16:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-28** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-BULK-01-042920 | PS00168 | | | |
| 29-APR-09 16:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-29** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-01-042920 | PS00169 | | | |
| 29-APR-09 17:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-30** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL15-WAT-BULK-01-042920<br>29-APR-09 17:30 | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-31** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB1-WAT-BULK-01-042920<br>29-APR-09 17:40 | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-32** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-050420<br>04-MAY-20 10:45 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-33** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP4-WAT-BULK-01-050420<br>04-MAY-20 14:55 | 82-0109-00-209<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-34** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP19-WAT-BULK-01-050420<br>04-MAY-20 15:30 | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-35** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| BP1-WAT-BULK-01-050420<br>04-MAY-20 15:30 | 82-0111-00-201<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-36** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB1-WAT-BULK-01-050420<br>04-MAY-20 10:45 | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-37** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB2-WAT-BULK-01-050420<br>04-MAY-20 11:45 | S016-282<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-38** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB3-WAT-BULK-01-050420<br>04-MAY-20 13:00 | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-39** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC5-WAT-BULK-02-050420<br>04-MAY-20 12:00 | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-40** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC5-WAT-BULK-03-050420<br>04-MAY-20 12:05 | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| Comments: requires MS/MSD | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33068-41** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC17-WAT-BULK-01-050520<br>05-MAY-20 09:45 | S016-067<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-42** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18A-WAT-BULK-01-050520<br>05-MAY-20 17:30 | S016-339<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-43** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18A-WAT-SML-01-050520<br>05-MAY-20 17:00 | S016-339<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-44** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18-WAT-BULK-01-050520<br>05-MAY-20 10:30 | 82-0109-00-208<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-45** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| FC1-WAT-BULK-01-050520<br>05-MAY-20 11:30 | S016-315<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-46** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP21-WAT-BULK-01-050520<br>05-MAY-20 14:55 | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-47** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL11-WAT-BULK-01-050520<br>05-MAY-20 11:25 | S016-074<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-48** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL15-WAT-BULK-01-050520<br>05-MAY-20 12:35 | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-49** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL6-WAT-BULK-01-050720<br>07-MAY-20 15:00 | S016-071<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-50** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-01-050720<br>07-MAY-20 13:20 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-51** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-02-050720<br>07-MAY-20 13:25 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-52** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-03-050720<br>07-MAY-20 13:30 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| Comments: requires MS/MSD | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33068-53** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-BULK-01-050720<br>07-MAY-20 10:45 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-54** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-EPI-01-050720<br>07-MAY-20 11:00 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-55** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-SML-01-050720<br>07-MAY-20 10:30 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-56** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-01-050720<br>07-MAY-20 12:00 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-57** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-02-050720<br>07-MAY-20 12:10 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-58** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC16A-WAT-BULK-01-050720<br>07-MAY-20 16:10 | S016-314<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-59** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-050720<br>07-MAY-20 12:45 | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

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| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-60** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-050720<br>07-MAY-20 12:15 | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-61** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-02-050720<br>07-MAY-20 12:20 | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-62** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-BULK-01-050720<br>07-MAY-20 14:35 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

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**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-63** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-EPI-01-050720<br>07-MAY-20 14:30 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-64** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-SML-01-050720<br>07-MAY-20 14:00 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-65** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP23-WAT-BULK-01-050720<br>07-MAY-20 17:15 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-66** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP23-WAT-SML-01-050720<br>07-MAY-20 17:00 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-67** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP24-WAT-BULK-01-050720<br>07-MAY-20 17:10 | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-68** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP24-WAT-BULK-02-050820<br>08-MAY-20 09:00 | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-69** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC7-WAT-BULK-01-050820<br>08-MAY-20 09:45 | S016-054<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-70** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC20-WAT-BULK-01-050820<br>08-MAY-20 14:05 | S016-276<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-71** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP8-WAT-BULK-01-050820<br>08-MAY-20 13:10 | 82-0109-00-211<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-72** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL18-WAT-BULK-01-050820<br>08-MAY-20 11:15 | SS00087<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-73** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP17-WAT-BULK-01-051120<br>11-MAY-20 11:00 | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-74** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP25-WAT-BULK-01-051120<br>11-MAY-20 12:30 | 82-0107-00-205<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-75** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP21-WAT-SML-01-042420<br>24-APR-20 15:15 | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

4085
15 May 2020
RTG/JTC

WB27465

L33068-1, -15 to -23

WB27466

L33068-2, -40, -39, -75

L33069-2 to -9

L33071-1, ~~-2~~ RTG

WB27470

L33068-3, 52, 49, 50, 52, 55, 53, 51, 57, 56, 54.

WB27471

L33068-4, -9 to -12,

-32 to -38, ~~-37, -39~~

4095
15MAY2020
RTG/ JTC

WB27472

L33068-~~X~~

RTG 15MAY2020

L33068-5
392789107077
4095
Not Received

1/1

WB27473

L33068-6, 47, 45, 46, 44, 42, 41, 48, 43
(-41 to -48)

WB27474

L33068-7, 13, 14, -69 to -72, -73, -74

L33068-58, 60, 61, 68, 62, 59, 66, 64, 65, 67, 63
(-58 to -68)

L33071-2

WB27475

L33068-8, -24 to -31
L33069-1

| Contract: 4095 | Date: 28-May-2020 | Initials: |
|---|---|---|

| Axys ID | Client ID | | Sampling Date&Time | | Missing | Damaged Label | Other/Comments: |
|---|---|---|---|---|---|---|---|
| | COC | Client Label (if discrepancy) | COC | Client Label (if discrepancy) | | | |
| L33068-52 | WL7-WAT-BULK-01-050720 | WL7-WAT-BULK-03-050720 | 07/05/2020 1:30:00 PM | | | | Logged in per client label, as instructed by PM / email from client. |
| L33068-57 | WL12-WAT-BULK-01-050720 | WL12-WAT-BULK-02-050720 | 07/05/2020 12:10:00 PM | | | | |
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www.axysanalytical.com

4095

## Gendive, Rosemarie (Sidney)

**From:** Robinson, Dale (Sidney)
**Sent:** Thursday, May 14, 2020 11:36 AM
**To:** ca.axys.Sample.Receiving
**Subject:** 4095 sample labeling issue (2 of 2)
**Attachments:** Shipping_COC_392789107088_Originally812543331249_051220.pdf

And another one...

Cheers,
Dale Robinson

Dale Robinson, B.Sc.
**Environment, Health and Safety**
Project Manager

Direct Office: +1-250 655 5812
Main Phone: +1 250 655 5800
Toll Free: +1 888 373 0881

**From:** Lanning, Amanda <amanda.lanning@aecom.com>
**Sent:** Thursday, May 14, 2020 11:33 AM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Similarly, there are two WL12-WAT-BULK-01-050720 – the second one should be WL12-WAT-BULK-**02**-050720. Again, the bottle labels should be correct.

Sorry should be the last typo....

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

**From:** Lanning, Amanda
**Sent:** Thursday, May 14, 2020 1:30 PM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew (Andrew.Tarara@aecom.com) <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

Hi Dale,

4095

I just caught a typo in the COC for tracking number 392789107088. There are two WL7-WAT-BULK-01-050720 sample IDs; the second one, which is marked for the MS/MSD kit, should be WL7-WAT-BULK-03-050720. I am pretty sure the labels are correct on the physical bottles are correct. I have attached the marked up COC.

They will be correct on the supplementary chains as well, but I wanted to get this to you before a parent sample inadvertently gets spiked.

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

---

**From:** Lanning, Amanda
**Sent:** Wednesday, May 13, 2020 11:17 AM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew (Andrew.Tarara@aecom.com) <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

2 of 4

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

---

**From:** Lanning, Amanda
**Sent:** Wednesday, May 13, 2020 11:16 AM
**To:** 'Robinson, Dale (Sidney)' <Dale.Robinson@sgs.com>; 'Pillay, Kalai (Sidney)' <Kalai.Pillay@sgs.com>; 'Grace, Richard (Toronto)' <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

Email 1 of 4:

Hi all,

Attached (in multiple emails for file size restriction reasons) are the shipping documents and associated COCs. The tracking numbers are:

39278910 7055
39278910 7066
39278910 7077
39278910 7088
39278910 7099
39278910 7103
39278910 7114
39278910 7125

Dale, as you and I discussed, I would like to run sample RC18A-FOAM-OLD-01-050520 as both a solids and an aqueous sample, or whatever makes sense. That sample is on the chain associated with tracking number: 392789107066.

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 10:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-21 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.515 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 16:59:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 325 | 3.11 (L) | 1:50 |
| **PFPeA** | | 33.1 | 1.55 (L) | 4:24 |
| **PFHxA** | | 57.6 | 0.777 (L) | 5:00 |
| **PFHpA** | | 56.8 | 0.777 (L) | 5:28 |
| **PFOA** | | 498 | 0.777 (L) | |
| **PFNA** | | 3.95 | 0.777 (L) | |
| **PFDA** | | 3.91 | 0.777 (L) | 7:33 |
| **PFUnA** | U | | 0.777 (L) | |
| **PFDoA** | U | | 0.777 (L) | |
| **PFTrDA** | U | | 0.777 (L) | |
| **PFTeDA** | U | | 0.777 (L) | |
| **PFBS** | | 17.6 | 0.777 (L) | 4:58 |
| **PFPeS** | | 19.3 | 0.777 (L) | 5:29 |
| **PFHxS** | | 51.0 | 0.777 (L) | |
| **PFHpS** | | 17.0 | 0.777 (L) | 7:09 |
| **PFOS** | | 1340 | 0.777 (L) | |
| **PFNS** | U | | 0.777 (L) | |
| **PFDS** | U | | 0.777 (L) | |
| **PFDoS** | U | | 0.777 (L) | |
| **4:2 FTS** | U | | 3.11 (L) | |
| **6:2 FTS** | U | | 2.80 (L) | |
| **8:2 FTS** | U | | 3.11 (L) | |
| **PFOSA** | | 9.92 | 0.777 (L) | |
| **N-MeFOSA** | U | | 0.893 (L) | |
| **N-EtFOSA** | U | | 1.94 (L) | |
| **MeFOSAA** | U | | 0.777 (L) | |
| **EtFOSAA** | | 7.98 | 0.777 (L) | |
| **N-MeFOSE** | U | | 7.77 (L) | |
| **N-EtFOSE** | U | | 5.82 (L) | |
| **HFPO-DA** | U | | 2.95 (L) | |
| **ADONA** | U | | 3.11 (L) | |
| **9Cl-PF3ONS** | U | | 3.11 (L) | |
| **11Cl-PF3OUdS** | U | | 3.11 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-21_Form1A_FC0L_203S28_SJ2756790.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 10:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-21 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.515 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 16:59:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 12.5 | 31.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 10.2 | 102 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.92 | 99.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.83 | 88.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.63 | 92.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.99 | 99.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.69 | 93.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.29 | 85.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.62 | 72.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.6 | 106 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 9.46 | 94.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 26.7 | 133 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 84.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.5 | 97.7 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 11.3 | 113 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 11.5 | 115 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 11.1 | 111 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 21.7 | 108 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 22.9 | 115 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 115 | 115 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 110 | 110 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.8 | 97.0 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-21_Form2_FC0L_203S28_SJ2756790.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 11:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-22 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.511 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:12:38 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 29** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 81.1 | 3.13 (L) | 1:50 |
| **PFPeA** | | 5.83 | 1.57 (L) | 4:24 |
| **PFHxA** | | 4.00 | 0.783 (L) | 5:00 |
| **PFHpA** | | 1.98 | 0.783 (L) | 5:28 |
| **PFOA** | | 6.56 | 0.783 (L) | |
| **PFNA** | U | | 0.783 (L) | |
| **PFDA** | U | | 0.783 (L) | |
| **PFUnA** | U | | 0.783 (L) | |
| **PFDoA** | U | | 0.783 (L) | |
| **PFTrDA** | U | | 0.783 (L) | |
| **PFTeDA** | U | | 0.783 (L) | |
| **PFBS** | | 2.47 | 0.783 (L) | 4:58 |
| **PFPeS** | U | | 0.783 (L) | |
| **PFHxS** | | 3.01 | 0.783 (L) | |
| **PFHpS** | U | | 0.783 (L) | |
| **PFOS** | | 2.20 | 0.783 (L) | |
| **PFNS** | U | | 0.783 (L) | |
| **PFDS** | U | | 0.783 (L) | |
| **PFDoS** | U | | 0.783 (L) | |
| **4:2 FTS** | U | | 3.13 (L) | |
| **6:2 FTS** | U | | 2.82 (L) | |
| **8:2 FTS** | U | | 3.13 (L) | |
| **PFOSA** | U | | 0.783 (L) | |
| **N-MeFOSA** | U | | 0.901 (L) | |
| **N-EtFOSA** | U | | 1.96 (L) | |
| **MeFOSAA** | U | | 0.783 (L) | |
| **EtFOSAA** | U | | 0.783 (L) | |
| **N-MeFOSE** | U | | 7.83 (L) | |
| **N-EtFOSE** | U | | 5.88 (L) | |
| **HFPO-DA** | U | | 2.98 (L) | |
| **ADONA** | U | | 3.13 (L) | |
| **9Cl-PF3ONS** | U | | 3.13 (L) | |
| **11Cl-PF3OUdS** | U | | 3.13 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-22_Form1A_FC0L_203S29_SJ2756791.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 11:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-22 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.511 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:12:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 19.7 | 49.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.6 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.50 | 95.0 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.64 | 86.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.15 | 83.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.65 | 93.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.51 | 90.2 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.35 | 87.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.39 | 67.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.89 | 88.9 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.47 | 84.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.6 | 83.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.4 | 96.8 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.86 | 88.6 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.84 | 88.4 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.91 | 89.1 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.6 | 92.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.5 | 92.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 91.5 | 91.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 87.2 | 87.2 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 35.6 | 88.9 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-22_Form2_FC0L_203S29_SJ2756791.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 11:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-23 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:25:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 90.3 | 2.96 (L) | 1:50 |
| **PFPeA** | | 8.31 | 1.48 (L) | 4:24 |
| **PFHxA** | | 12.7 | 0.740 (L) | 5:00 |
| **PFHpA** | | 13.2 | 0.740 (L) | 5:28 |
| **PFOA** | | 131 | 0.740 (L) | |
| **PFNA** | J | 1.48 | 0.740 (L) | |
| **PFDA** | J | 1.26 | 0.740 (L) | 7:33 |
| **PFUnA** | U | | 0.740 (L) | |
| **PFDoA** | U | | 0.740 (L) | |
| **PFTrDA** | U | | 0.740 (L) | |
| **PFTeDA** | U | | 0.740 (L) | |
| **PFBS** | | 4.58 | 0.740 (L) | 4:58 |
| **PFPeS** | | 4.24 | 0.740 (L) | 5:29 |
| **PFHxS** | | 14.9 | 0.740 (L) | |
| **PFHpS** | | 4.07 | 0.740 (L) | 7:08 |
| **PFOS** | | 366 | 0.740 (L) | |
| **PFNS** | U | | 0.740 (L) | |
| **PFDS** | U | | 0.740 (L) | |
| **PFDoS** | U | | 0.740 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | | 2.70 | 0.740 (L) | |
| **N-MeFOSA** | U | | 0.851 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.740 (L) | |
| **EtFOSAA** | | 1.85 | 0.740 (L) | |
| **N-MeFOSE** | U | | 7.40 (L) | |
| **N-EtFOSE** | U | | 5.55 (L) | |
| **HFPO-DA** | U | | 2.81 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-23_Form1A_FC0L_203S30_SJ2756792.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-23 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:25:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 15.3 | 38.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 95.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.78 | 97.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.43 | 94.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.86 | 88.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.43 | 88.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.19 | 83.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.07 | 81.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.42 | 68.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.74 | 97.4 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.89 | 88.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.94 | 99.4 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.7 | 114 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.2 | 86.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.7 | 98.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.21 | 92.1 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.47 | 84.7 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.29 | 82.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.1 | 95.3 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.4 | 96.9 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 90.2 | 90.2 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 86.3 | 86.3 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.2 | 95.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_L33068-23_Form2_FC0L_203S30_SJ2756792.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 15:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-24 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.518 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:38:40 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 31** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 432 | 3.09 (L) | 1:50 |
| **PFPeA** | | 13.4 | 1.54 (L) | 4:24 |
| **PFHxA** | | 16.2 | 0.772 (L) | 5:00 |
| **PFHpA** | | 11.1 | 0.772 (L) | 5:28 |
| **PFOA** | | 92.7 | 0.772 (L) | |
| **PFNA** | J | 1.06 | 0.772 (L) | |
| **PFDA** | U | | 0.772 (L) | |
| **PFUnA** | U | | 0.772 (L) | |
| **PFDoA** | U | | 0.772 (L) | |
| **PFTrDA** | U | | 0.772 (L) | |
| **PFTeDA** | U | | 0.772 (L) | |
| **PFBS** | | 4.60 | 0.772 (L) | 4:57 |
| **PFPeS** | | 3.55 | 0.772 (L) | 5:29 |
| **PFHxS** | | 10.0 | 0.772 (L) | |
| **PFHpS** | | 1.92 | 0.772 (L) | 7:08 |
| **PFOS** | | 146 | 0.772 (L) | |
| **PFNS** | U | | 0.772 (L) | |
| **PFDS** | U | | 0.772 (L) | |
| **PFDoS** | U | | 0.772 (L) | |
| **4:2 FTS** | U | | 3.09 (L) | |
| **6:2 FTS** | U | | 2.78 (L) | |
| **8:2 FTS** | U | | 3.09 (L) | |
| **PFOSA** | U | | 0.772 (L) | |
| **N-MeFOSA** | U | | 0.888 (L) | |
| **N-EtFOSA** | U | | 1.93 (L) | |
| **MeFOSAA** | U | | 0.772 (L) | |
| **EtFOSAA** | U | | 0.772 (L) | |
| **N-MeFOSE** | U | | 7.72 (L) | |
| **N-EtFOSE** | U | | 5.79 (L) | |
| **HFPO-DA** | U | | 2.93 (L) | |
| **ADONA** | U | | 3.09 (L) | |
| **9Cl-PF3ONS** | U | | 3.09 (L) | |
| **11Cl-PF3OUdS** | U | | 3.09 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-24_Form1A_FC0L_203S31_SJ2756793.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 15:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-24 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:38:40 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 13.3 | 33.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.1 | 101 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.64 | 96.4 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.94 | 89.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.97 | 89.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.09 | 81.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.80 | 96.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.95 | 98.9 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.61 | 72.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.66 | 73.2 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.72 | 97.2 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.95 | 89.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.87 | 98.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.1 | 110 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.8 | 84.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.3 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.52 | 95.2 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.36 | 93.6 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.82 | 88.2 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.1 | 95.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.0 | 100 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 92.2 | 92.2 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 92.4 | 92.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 39.0 | 97.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-24_Form2_FC0L_203S31_SJ2756793.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 14:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-25 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.537 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:51:37 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 32** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 125 | 2.98 (L) | 1:50 |
| **PFPeA** | | 10.3 | 1.49 (L) | 4:24 |
| **PFHxA** | | 15.7 | 0.744 (L) | 5:00 |
| **PFHpA** | | 14.0 | 0.744 (L) | 5:28 |
| **PFOA** | | 102 | 0.744 (L) | |
| **PFNA** | J | 1.14 | 0.744 (L) | |
| **PFDA** | J | 0.984 | 0.744 (L) | 7:33 |
| **PFUnA** | U | | 0.744 (L) | |
| **PFDoA** | U | | 0.744 (L) | |
| **PFTrDA** | U | | 0.744 (L) | |
| **PFTeDA** | U | | 0.744 (L) | |
| **PFBS** | | 5.73 | 0.744 (L) | 4:57 |
| **PFPeS** | | 4.36 | 0.744 (L) | 5:29 |
| **PFHxS** | | 12.4 | 0.744 (L) | |
| **PFHpS** | | 2.49 | 0.744 (L) | 7:09 |
| **PFOS** | | 212 | 0.744 (L) | |
| **PFNS** | U | | 0.744 (L) | |
| **PFDS** | U | | 0.744 (L) | |
| **PFDoS** | U | | 0.744 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | J | 0.842 | 0.744 (L) | |
| **N-MeFOSA** | U | | 0.856 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.744 (L) | |
| **EtFOSAA** | U | | 0.744 (L) | |
| **N-MeFOSE** | U | | 7.44 (L) | |
| **N-EtFOSE** | U | | 5.58 (L) | |
| **HFPO-DA** | U | | 2.83 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-25_Form1A_FC0L_203S32_SJ2756794.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 14:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-25 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 17:51:37 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 12.2 | 30.4 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.3 | 96.4 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 8.92 | 89.2 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.97 | 89.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.79 | 87.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.13 | 82.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.72 | 94.4 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.29 | 85.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.30 | 66.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.89 | 88.9 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.70 | 87.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.43 | 94.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.7 | 109 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.66 | 86.6 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.51 | 85.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.67 | 86.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.6 | 92.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.4 | 96.8 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 88.0 | 88.0 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 84.7 | 84.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.1 | 90.2 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-25_Form2_FC0L_203S32_SJ2756794.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 13:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-26 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.516 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:04:42 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 33** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 123 | 3.10 (L) | 1:50 |
| **PFPeA** | | 8.42 | 1.55 (L) | 4:24 |
| **PFHxA** | | 9.29 | 0.775 (L) | 5:00 |
| **PFHpA** | | 7.13 | 0.775 (L) | 5:28 |
| **PFOA** | | 60.9 | 0.775 (L) | |
| **PFNA** | J | 1.19 | 0.775 (L) | |
| **PFDA** | J | 0.874 | 0.775 (L) | 7:33 |
| **PFUnA** | U | | 0.775 (L) | |
| **PFDoA** | U | | 0.775 (L) | |
| **PFTrDA** | U | | 0.775 (L) | |
| **PFTeDA** | U | | 0.775 (L) | |
| **PFBS** | | 4.64 | 0.775 (L) | 4:58 |
| **PFPeS** | | 2.75 | 0.775 (L) | 5:29 |
| **PFHxS** | | 8.10 | 0.775 (L) | |
| **PFHpS** | | 1.79 | 0.775 (L) | 7:09 |
| **PFOS** | | 190 | 0.775 (L) | |
| **PFNS** | U | | 0.775 (L) | |
| **PFDS** | U | | 0.775 (L) | |
| **PFDoS** | U | | 0.775 (L) | |
| **4:2 FTS** | U | | 3.10 (L) | |
| **6:2 FTS** | U | | 2.79 (L) | |
| **8:2 FTS** | U | | 3.10 (L) | |
| **PFOSA** | J | 0.823 | 0.775 (L) | |
| **N-MeFOSA** | U | | 0.892 (L) | |
| **N-EtFOSA** | U | | 1.94 (L) | |
| **MeFOSAA** | U | | 0.775 (L) | |
| **EtFOSAA** | U | | 0.775 (L) | |
| **N-MeFOSE** | U | | 7.75 (L) | |
| **N-EtFOSE** | U | | 5.81 (L) | |
| **HFPO-DA** | U | | 2.95 (L) | |
| **ADONA** | U | | 3.10 (L) | |
| **9Cl-PF3ONS** | U | | 3.10 (L) | |
| **11Cl-PF3OUdS** | U | | 3.10 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-26_Form1A_FC0L_203S33_SJ2756795.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 13:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-26 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.516 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:04:42 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

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| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 31.3 | 78.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 97.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.59 | 95.9 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.37 | 93.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.89 | 88.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.32 | 86.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.78 | 95.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.63 | 92.7 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.11 | 82.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.77 | 75.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.65 | 96.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.26 | 92.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.4 | 104 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.2 | 116 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.3 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.80 | 98.0 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.96 | 79.6 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.04 | 80.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.5 | 102 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.0 | 95.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 95.4 | 95.4 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 93.1 | 93.1 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.2 | 95.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-26_Form2_FC0L_203S33_SJ2756795.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 16:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-27 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:17:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 385 | 2.94 (L) | 1:50 |
| **PFPeA** | | 12.5 | 1.47 (L) | 4:24 |
| **PFHxA** | | 15.3 | 0.735 (L) | 5:00 |
| **PFHpA** | | 10.1 | 0.735 (L) | 5:28 |
| **PFOA** | | 86.3 | 0.735 (L) | |
| **PFNA** | J | 0.776 | 0.735 (L) | |
| **PFDA** | U | | 0.735 (L) | |
| **PFUnA** | U | | 0.735 (L) | |
| **PFDoA** | U | | 0.735 (L) | |
| **PFTrDA** | U | | 0.735 (L) | |
| **PFTeDA** | U | | 0.735 (L) | |
| **PFBS** | | 4.67 | 0.735 (L) | 4:58 |
| **PFPeS** | | 3.84 | 0.735 (L) | 5:29 |
| **PFHxS** | | 11.0 | 0.735 (L) | |
| **PFHpS** | | 1.80 | 0.735 (L) | 7:09 |
| **PFOS** | | 125 | 0.735 (L) | |
| **PFNS** | U | | 0.735 (L) | |
| **PFDS** | U | | 0.735 (L) | |
| **PFDoS** | U | | 0.735 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | U | | 0.735 (L) | |
| **N-MeFOSA** | U | | 0.845 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.735 (L) | |
| **EtFOSAA** | U | | 0.735 (L) | |
| **N-MeFOSE** | U | | 7.35 (L) | |
| **N-EtFOSE** | U | | 5.51 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-27_Form1A_FC0L_203S34_SJ2756796.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 16:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-27 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:17:39 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 11.5 | 28.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 99.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.44 | 94.4 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.83 | 88.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.37 | 83.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.15 | 83.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.51 | 90.2 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.15 | 83.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.18 | 63.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.89 | 88.9 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.48 | 84.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.26 | 92.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.1 | 80.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.7 | 98.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.24 | 82.4 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 7.28 | 72.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 6.97 | 69.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 17.2 | 86.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.5 | 87.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 82.7 | 82.7 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 79.5 | 79.5 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.7 | 96.8 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-27_Form2_FC0L_203S34_SJ2756796.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 16:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-28 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.521 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:30:44 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 35** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 377 | 3.07 (L) | 1:50 |
| **PFPeA** | | 12.3 | 1.54 (L) | 4:24 |
| **PFHxA** | | 15.9 | 0.768 (L) | 5:00 |
| **PFHpA** | | 10.0 | 0.768 (L) | 5:28 |
| **PFOA** | | 86.1 | 0.768 (L) | |
| **PFNA** | J | 0.865 | 0.768 (L) | |
| **PFDA** | U | | 0.768 (L) | |
| **PFUnA** | U | | 0.768 (L) | |
| **PFDoA** | U | | 0.768 (L) | |
| **PFTrDA** | U | | 0.768 (L) | |
| **PFTeDA** | U | | 0.768 (L) | |
| **PFBS** | | 4.52 | 0.768 (L) | 4:58 |
| **PFPeS** | | 3.61 | 0.768 (L) | 5:29 |
| **PFHxS** | | 10.7 | 0.768 (L) | |
| **PFHpS** | | 1.80 | 0.768 (L) | 7:09 |
| **PFOS** | | 128 | 0.768 (L) | |
| **PFNS** | U | | 0.768 (L) | |
| **PFDS** | U | | 0.768 (L) | |
| **PFDoS** | U | | 0.768 (L) | |
| **4:2 FTS** | U | | 3.07 (L) | |
| **6:2 FTS** | U | | 2.77 (L) | |
| **8:2 FTS** | U | | 3.07 (L) | |
| **PFOSA** | U | | 0.768 (L) | |
| **N-MeFOSA** | U | | 0.883 (L) | |
| **N-EtFOSA** | U | | 1.92 (L) | |
| **MeFOSAA** | U | | 0.768 (L) | |
| **EtFOSAA** | U | | 0.768 (L) | |
| **N-MeFOSE** | U | | 7.68 (L) | |
| **N-EtFOSE** | U | | 5.76 (L) | |
| **HFPO-DA** | U | | 2.92 (L) | |
| **ADONA** | U | | 3.07 (L) | |
| **9Cl-PF3ONS** | U | | 3.07 (L) | |
| **11Cl-PF3OUdS** | U | | 3.07 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-28_Form1A_FC0L_203S35_SJ2756797.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL9-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 16:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-28 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.521 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:30:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 12.5 | 31.2 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 94.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 8.97 | 89.7 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.22 | 92.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.66 | 86.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.37 | 87.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.47 | 89.4 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 3.97 | 79.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.13 | 62.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.33 | 93.3 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.73 | 87.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.70 | 97.0 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.5 | 107 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.8 | 84.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.8 | 98.8 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.19 | 91.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.43 | 84.3 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.39 | 83.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.8 | 94.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.2 | 90.9 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 88.5 | 88.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 84.4 | 84.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 35.7 | 89.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-28_Form2_FC0L_203S35_SJ2756797.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 17:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-29 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:43:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 384 | 2.96 (L) | 1:50 |
| **PFPeA** | | 12.5 | 1.48 (L) | 4:24 |
| **PFHxA** | | 15.3 | 0.741 (L) | 5:00 |
| **PFHpA** | | 10.4 | 0.741 (L) | 5:28 |
| **PFOA** | | 84.4 | 0.741 (L) | |
| **PFNA** | U | | 0.741 (L) | |
| **PFDA** | U | | 0.741 (L) | |
| **PFUnA** | U | | 0.741 (L) | |
| **PFDoA** | U | | 0.741 (L) | |
| **PFTrDA** | U | | 0.741 (L) | |
| **PFTeDA** | U | | 0.741 (L) | |
| **PFBS** | | 4.72 | 0.741 (L) | 4:57 |
| **PFPeS** | | 3.53 | 0.741 (L) | 5:29 |
| **PFHxS** | | 11.1 | 0.741 (L) | |
| **PFHpS** | | 1.62 | 0.741 (L) | 7:08 |
| **PFOS** | | 124 | 0.741 (L) | |
| **PFNS** | U | | 0.741 (L) | |
| **PFDS** | U | | 0.741 (L) | |
| **PFDoS** | U | | 0.741 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | J | 0.907 | 0.741 (L) | |
| **N-MeFOSA** | U | | 0.852 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.741 (L) | |
| **EtFOSAA** | U | | 0.741 (L) | |
| **N-MeFOSE** | U | | 7.41 (L) | |
| **N-EtFOSE** | U | | 5.56 (L) | |
| **HFPO-DA** | U | | 2.82 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-29_Form1A_FC0L_203S36_SJ2756798.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL12-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 17:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-29 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:43:41 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 36** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 11.9 | 29.7 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.6 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.16 | 91.6 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.82 | 88.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.54 | 85.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 3.99 | 79.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.71 | 94.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.73 | 94.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.41 | 88.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.39 | 67.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.33 | 93.3 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.96 | 89.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.03 | 90.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.9 | 104 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.1 | 85.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.67 | 86.7 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.50 | 85.0 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.04 | 80.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 17.8 | 89.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 16.0 | 80.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 86.3 | 86.3 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 85.4 | 85.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.4 | 96.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-29_Form2_FC0L_203S36_SJ2756798.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 17:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-30 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.534 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:56:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 259 | 2.99 (L) | 1:50 |
| **PFPeA** | | 8.59 | 1.50 (L) | 4:24 |
| **PFHxA** | | 11.0 | 0.749 (L) | 5:00 |
| **PFHpA** | | 8.30 | 0.749 (L) | 5:28 |
| **PFOA** | | 85.4 | 0.749 (L) | |
| **PFNA** | | 1.52 | 0.749 (L) | |
| **PFDA** | J | 1.27 | 0.749 (L) | 7:33 |
| **PFUnA** | U | | 0.749 (L) | |
| **PFDoA** | U | | 0.749 (L) | |
| **PFTrDA** | U | | 0.749 (L) | |
| **PFTeDA** | U | | 0.749 (L) | |
| **PFBS** | | 3.25 | 0.749 (L) | 4:57 |
| **PFPeS** | | 2.78 | 0.749 (L) | 5:29 |
| **PFHxS** | | 10.6 | 0.749 (L) | |
| **PFHpS** | | 2.66 | 0.749 (L) | 7:09 |
| **PFOS** | | 336 | 0.749 (L) | |
| **PFNS** | U | | 0.749 (L) | |
| **PFDS** | U | | 0.749 (L) | |
| **PFDoS** | U | | 0.749 (L) | |
| **4:2 FTS** | U | | 2.99 (L) | |
| **6:2 FTS** | U | | 2.69 (L) | |
| **8:2 FTS** | U | | 2.99 (L) | |
| **PFOSA** | J | 1.28 | 0.749 (L) | |
| **N-MeFOSA** | U | | 0.861 (L) | |
| **N-EtFOSA** | U | | 1.87 (L) | |
| **MeFOSAA** | U | | 0.749 (L) | |
| **EtFOSAA** | U | | 0.749 (L) | |
| **N-MeFOSE** | U | | 7.49 (L) | |
| **N-EtFOSE** | U | | 5.61 (L) | |
| **HFPO-DA** | U | | 2.84 (L) | |
| **ADONA** | U | | 2.99 (L) | |
| **9Cl-PF3ONS** | U | | 2.99 (L) | |
| **11Cl-PF3OUdS** | U | | 2.99 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-30_Form1A_FC0L_203S37_SJ2756799.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 17:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-30 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.534 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 18:56:46 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 37** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 8.95 | 22.4 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.4 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.70 | 97.0 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.25 | 92.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.94 | 89.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.40 | 87.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.69 | 93.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.78 | 95.7 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.54 | 70.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.14 | 62.9 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.98 | 89.8 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.82 | 88.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.87 | 98.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.2 | 101 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.7 | 104 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.18 | 91.8 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.61 | 86.1 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.54 | 85.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.6 | 93.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 92.8 | 92.8 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 87.0 | 87.0 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 39.6 | 99.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-30_Form2_FC0L_203S37_SJ2756799.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB1-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 17:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-31 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:09:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 136 | 3.06 (L) | 1:50 |
| **PFPeA** | | 10.1 | 1.53 (L) | 4:24 |
| **PFHxA** | | 5.94 | 0.765 (L) | 5:00 |
| **PFHpA** | | 1.99 | 0.765 (L) | 5:28 |
| **PFOA** | | 7.53 | 0.765 (L) | |
| **PFNA** | U | | 0.765 (L) | |
| **PFDA** | U | | 0.765 (L) | |
| **PFUnA** | U | | 0.765 (L) | |
| **PFDoA** | U | | 0.765 (L) | |
| **PFTrDA** | U | | 0.765 (L) | |
| **PFTeDA** | U | | 0.765 (L) | |
| **PFBS** | | 4.15 | 0.765 (L) | 4:58 |
| **PFPeS** | U | | 0.765 (L) | |
| **PFHxS** | | 4.33 | 0.765 (L) | |
| **PFHpS** | U | | 0.765 (L) | |
| **PFOS** | | 2.57 | 0.765 (L) | |
| **PFNS** | U | | 0.765 (L) | |
| **PFDS** | U | | 0.765 (L) | |
| **PFDoS** | U | | 0.765 (L) | |
| **4:2 FTS** | U | | 3.06 (L) | |
| **6:2 FTS** | U | | 2.76 (L) | |
| **8:2 FTS** | U | | 3.06 (L) | |
| **PFOSA** | U | | 0.765 (L) | |
| **N-MeFOSA** | U | | 0.880 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.765 (L) | |
| **EtFOSAA** | U | | 0.765 (L) | |
| **N-MeFOSE** | U | | 7.65 (L) | |
| **N-EtFOSE** | U | | 5.74 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 3.06 (L) | |
| **9Cl-PF3ONS** | U | | 3.06 (L) | |
| **11Cl-PF3OUdS** | U | | 3.06 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-31_Form1A_FC0L_203S38_SJ2756800.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**VB1-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 17:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-31 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:09:51 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 38** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 9.52 | 23.8 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.6 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.47 | 94.7 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.54 | 95.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.31 | 93.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.14 | 103 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.02 | 100 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 5.05 | 101 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 4.17 | 83.3 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.72 | 97.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.05 | 90.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.5 | 105 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.8 | 109 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.5 | 82.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.2 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.72 | 97.2 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.38 | 93.8 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 9.46 | 94.6 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.8 | 104 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.3 | 96.5 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 97.6 | 97.6 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 94.2 | 94.2 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 37.8 | 94.4 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-31_Form2_FC0L_203S38_SJ2756800.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 10:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-32 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.551 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:32:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 745 | 2.91 (L) | 1:50 |
| **PFPeA** | | 109 | 1.45 (L) | 4:24 |
| **PFHxA** | | 226 | 0.726 (L) | 5:00 |
| **PFHpA** | | 248 | 0.726 (L) | 5:28 |
| **PFOA** | E | | | |
| **PFNA** | | 15.0 | 0.726 (L) | |
| **PFDA** | | 16.5 | 0.726 (L) | 7:33 |
| **PFUnA** | U | | 0.726 (L) | |
| **PFDoA** | U | | 0.726 (L) | |
| **PFTrDA** | U | | 0.726 (L) | |
| **PFTeDA** | U | | 0.726 (L) | |
| **PFBS** | | 64.4 | 0.726 (L) | 4:58 |
| **PFPeS** | | 90.5 | 0.726 (L) | 5:29 |
| **PFHxS** | | 219 | 0.726 (L) | |
| **PFHpS** | | 104 | 0.726 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | J | 1.20 | 0.726 (L) | 7:58 |
| **PFDS** | U | | 0.726 (L) | |
| **PFDoS** | U | | 0.726 (L) | |
| **4:2 FTS** | U | | 2.91 (L) | |
| **6:2 FTS** | U | | 2.62 (L) | |
| **8:2 FTS** | U | | 2.91 (L) | |
| **PFOSA** | | 60.5 | 0.726 (L) | |
| **N-MeFOSA** | U | | 0.835 (L) | |
| **N-EtFOSA** | J | 3.52 | 1.82 (L) | |
| **MeFOSAA** | U | | 0.726 (L) | |
| **EtFOSAA** | | 91.9 | 0.726 (L) | |
| **N-MeFOSE** | U | | 7.26 (L) | |
| **N-EtFOSE** | U | | 5.45 (L) | |
| **HFPO-DA** | U | | 2.76 (L) | |
| **ADONA** | U | | 2.91 (L) | |
| **9Cl-PF3ONS** | U | | 2.91 (L) | |
| **11Cl-PF3OUdS** | U | | 2.91 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-32_Form1A_FC0L_203S49_SJ2756812.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 10:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-32 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.551 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:32:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 11.2 | 28.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.1 | 90.7 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.39 | 93.9 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 12.5 | 125 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.10 | 91.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.72 | 94.4 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.64 | 92.7 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.71 | 94.3 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.63 | 72.5 | 8:51 |
| **13C3-PFBS** | | 10.0 | 10.0 | 100 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.89 | 88.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.61 | 96.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 25.6 | 128 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 14.2 | 71.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.1 | 90.5 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 15.8 | 158 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 14.7 | 147 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 14.3 | 143 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 28.0 | 140 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 31.1 | 155 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 153 | 153 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 146 | 146 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.2 | 85.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-32_Form2_FC0L_203S49_SJ2756812.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 10:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-32 N |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.551 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 22:38:00 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 54** |
| **Dilution Factor:** | 5 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | D | 2170 | 3.63 (L) | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 6260 | 3.63 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-32_Form1A_FC0L_203S54_SJ2756817.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 10:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-32 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.551 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 22:38:00 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | D | 10.0 | 8.71 | 87.1 | 6:11 |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 8.04 | 80.4 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-32_Form2_FC0L_203S54_SJ2756817.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP4-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 14:55**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-33 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:22:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 128 | 3.06 (L) | 1:50 |
| **PFPeA** | | 11.0 | 1.53 (L) | 4:24 |
| **PFHxA** | | 16.2 | 0.765 (L) | 5:00 |
| **PFHpA** | | 14.3 | 0.765 (L) | 5:28 |
| **PFOA** | | 108 | 0.765 (L) | |
| **PFNA** | J | 1.23 | 0.765 (L) | |
| **PFDA** | J | 0.812 | 0.765 (L) | 7:33 |
| **PFUnA** | U | | 0.765 (L) | |
| **PFDoA** | U | | 0.765 (L) | |
| **PFTrDA** | U | | 0.765 (L) | |
| **PFTeDA** | U | | 0.765 (L) | |
| **PFBS** | | 5.86 | 0.765 (L) | 4:58 |
| **PFPeS** | | 4.23 | 0.765 (L) | 5:29 |
| **PFHxS** | | 12.9 | 0.765 (L) | |
| **PFHpS** | | 2.65 | 0.765 (L) | 7:09 |
| **PFOS** | | 228 | 0.765 (L) | |
| **PFNS** | U | | 0.765 (L) | |
| **PFDS** | U | | 0.765 (L) | |
| **PFDoS** | U | | 0.765 (L) | |
| **4:2 FTS** | U | | 3.06 (L) | |
| **6:2 FTS** | J | 4.20 | 2.76 (L) | 5:53 |
| **8:2 FTS** | U | | 3.06 (L) | |
| **PFOSA** | J | 1.13 | 0.765 (L) | |
| **N-MeFOSA** | U | | 0.880 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.765 (L) | |
| **EtFOSAA** | J | 0.875 | 0.765 (L) | |
| **N-MeFOSE** | U | | 7.65 (L) | |
| **N-EtFOSE** | U | | 5.74 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 3.06 (L) | |
| **9Cl-PF3ONS** | U | | 3.06 (L) | |
| **11Cl-PF3OUdS** | U | | 3.06 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-33_Form1A_FC0L_203S39_SJ2756801.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP4-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 14:55**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-33 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:22:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 39** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 4.38 | 11.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.64 | 96.4 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.85 | 88.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.58 | 85.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.12 | 82.3 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.54 | 90.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.78 | 95.5 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.43 | 88.6 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.23 | 64.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.21 | 92.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.71 | 87.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.6 | 108 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.5 | 77.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.8 | 94.2 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.60 | 96.0 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 9.67 | 96.7 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 9.48 | 94.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.0 | 95.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.8 | 94.1 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 95.4 | 95.4 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 88.7 | 88.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 37.8 | 94.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-33_Form2_FC0L_203S39_SJ2756801.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 15:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-34 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.510 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:35:53 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 133 | 3.14 (L) | 1:50 |
| **PFPeA** | | 11.1 | 1.57 (L) | 4:24 |
| **PFHxA** | | 16.2 | 0.785 (L) | 5:00 |
| **PFHpA** | | 14.3 | 0.785 (L) | 5:28 |
| **PFOA** | | 113 | 0.785 (L) | |
| **PFNA** | J | 1.08 | 0.785 (L) | |
| **PFDA** | J | 0.791 | 0.785 (L) | 7:33 |
| **PFUnA** | U | | 0.785 (L) | |
| **PFDoA** | U | | 0.785 (L) | |
| **PFTrDA** | U | | 0.785 (L) | |
| **PFTeDA** | U | | 0.785 (L) | |
| **PFBS** | | 5.87 | 0.785 (L) | 4:58 |
| **PFPeS** | | 4.76 | 0.785 (L) | 5:29 |
| **PFHxS** | | 13.7 | 0.785 (L) | |
| **PFHpS** | | 2.65 | 0.785 (L) | 7:09 |
| **PFOS** | | 214 | 0.785 (L) | |
| **PFNS** | U | | 0.785 (L) | |
| **PFDS** | U | | 0.785 (L) | |
| **PFDoS** | U | | 0.785 (L) | |
| **4:2 FTS** | U | | 3.14 (L) | |
| **6:2 FTS** | U | | 2.83 (L) | |
| **8:2 FTS** | U | | 3.14 (L) | |
| **PFOSA** | J | 1.02 | 0.785 (L) | |
| **N-MeFOSA** | U | | 0.903 (L) | |
| **N-EtFOSA** | U | | 1.96 (L) | |
| **MeFOSAA** | U | | 0.785 (L) | |
| **EtFOSAA** | U | | 0.785 (L) | |
| **N-MeFOSE** | U | | 7.85 (L) | |
| **N-EtFOSE** | U | | 5.89 (L) | |
| **HFPO-DA** | U | | 2.98 (L) | |
| **ADONA** | U | | 3.14 (L) | |
| **9Cl-PF3ONS** | U | | 3.14 (L) | |
| **11Cl-PF3OUdS** | U | | 3.14 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-34_Form1A_FC0L_203S40_SJ2756802.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 15:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-34 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.510 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:35:53 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 21.2 | 53.1 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.7 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.29 | 92.9 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.41 | 94.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.66 | 86.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.34 | 86.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.89 | 97.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.72 | 94.5 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.34 | 86.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.28 | 65.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.74 | 97.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.86 | 88.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.71 | 97.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.2 | 116 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 85.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.6 | 108 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.89 | 88.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.70 | 87.0 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.24 | 82.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.6 | 97.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.9 | 94.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 89.1 | 89.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 83.7 | 83.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.2 | 95.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-34_Form2_FC0L_203S40_SJ2756802.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**BP1-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 15:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-35 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:48:50 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 123 | 2.95 (L) | 1:50 |
| **PFPeA** | | 7.30 | 1.47 (L) | 4:24 |
| **PFHxA** | | 5.32 | 0.737 (L) | 5:00 |
| **PFHpA** | | 3.01 | 0.737 (L) | 5:28 |
| **PFOA** | | 11.9 | 0.737 (L) | |
| **PFNA** | U | | 0.737 (L) | |
| **PFDA** | U | | 0.737 (L) | |
| **PFUnA** | U | | 0.737 (L) | |
| **PFDoA** | U | | 0.737 (L) | |
| **PFTrDA** | U | | 0.737 (L) | |
| **PFTeDA** | U | | 0.737 (L) | |
| **PFBS** | | 2.23 | 0.737 (L) | 4:58 |
| **PFPeS** | U | | 0.737 (L) | |
| **PFHxS** | U | | 0.737 (L) | |
| **PFHpS** | U | | 0.737 (L) | |
| **PFOS** | J | 1.24 | 0.737 (L) | |
| **PFNS** | U | | 0.737 (L) | |
| **PFDS** | U | | 0.737 (L) | |
| **PFDoS** | U | | 0.737 (L) | |
| **4:2 FTS** | U | | 2.95 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.95 (L) | |
| **PFOSA** | U | | 0.737 (L) | |
| **N-MeFOSA** | U | | 0.847 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.737 (L) | |
| **EtFOSAA** | U | | 0.737 (L) | |
| **N-MeFOSE** | U | | 7.37 (L) | |
| **N-EtFOSE** | U | | 5.53 (L) | |
| **HFPO-DA** | U | | 2.80 (L) | |
| **ADONA** | U | | 2.95 (L) | |
| **9Cl-PF3ONS** | U | | 2.95 (L) | |
| **11Cl-PF3OUdS** | U | | 2.95 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-35_Form1A_FC0L_203S41_SJ2756803.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**BP1-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 15:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-35 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 19:48:50 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.98 | 15.0 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.5 | 92.7 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 10.0 | 100 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.35 | 93.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.99 | 89.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.47 | 89.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.73 | 94.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.52 | 90.4 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.03 | 80.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.23 | 64.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.41 | 94.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.87 | 88.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.51 | 95.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.9 | 115 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.1 | 100 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.79 | 87.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.75 | 87.5 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.78 | 87.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 17.9 | 89.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.0 | 85.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 83.0 | 83.0 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 79.6 | 79.6 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 39.8 | 99.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-35_Form2_FC0L_203S41_SJ2756803.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB1-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 10:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-36 |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.517 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 20:01:55 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 42** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 169 | 3.09 (L) | 1:50 |
| **PFPeA** | | 12.1 | 1.55 (L) | 4:24 |
| **PFHxA** | | 6.30 | 0.773 (L) | 5:00 |
| **PFHpA** | | 2.20 | 0.773 (L) | 5:28 |
| **PFOA** | | 8.34 | 0.773 (L) | |
| **PFNA** | U | | 0.773 (L) | |
| **PFDA** | U | | 0.773 (L) | |
| **PFUnA** | U | | 0.773 (L) | |
| **PFDoA** | U | | 0.773 (L) | |
| **PFTrDA** | U | | 0.773 (L) | |
| **PFTeDA** | U | | 0.773 (L) | |
| **PFBS** | | 4.27 | 0.773 (L) | 4:58 |
| **PFPeS** | U | | 0.773 (L) | |
| **PFHxS** | | 4.29 | 0.773 (L) | |
| **PFHpS** | U | | 0.773 (L) | |
| **PFOS** | | 3.86 | 0.773 (L) | |
| **PFNS** | U | | 0.773 (L) | |
| **PFDS** | U | | 0.773 (L) | |
| **PFDoS** | U | | 0.773 (L) | |
| **4:2 FTS** | U | | 3.09 (L) | |
| **6:2 FTS** | U | | 2.78 (L) | |
| **8:2 FTS** | U | | 3.09 (L) | |
| **PFOSA** | U | | 0.773 (L) | |
| **N-MeFOSA** | U | | 0.889 (L) | |
| **N-EtFOSA** | U | | 1.93 (L) | |
| **MeFOSAA** | U | | 0.773 (L) | |
| **EtFOSAA** | U | | 0.773 (L) | |
| **N-MeFOSE** | U | | 7.73 (L) | |
| **N-EtFOSE** | U | | 5.80 (L) | |
| **HFPO-DA** | U | | 2.94 (L) | |
| **ADONA** | U | | 3.09 (L) | |
| **9Cl-PF3ONS** | U | | 3.09 (L) | |
| **11Cl-PF3OUdS** | U | | 3.09 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-36_Form1A_FC0L_203S42_SJ2756804.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB1-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 10:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-36 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.517 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 20:01:55 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.21 | 13.0 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 97.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.98 | 99.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.12 | 91.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.10 | 91.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.35 | 87.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.90 | 98.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.79 | 95.9 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.50 | 89.9 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.20 | 64.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.28 | 92.8 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.88 | 88.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.60 | 96.0 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.6 | 97.9 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.0 | 94.9 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.89 | 88.9 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.76 | 87.6 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.38 | 83.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 17.9 | 89.7 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.0 | 89.9 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 84.1 | 84.1 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 77.7 | 77.7 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.2 | 95.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-36_Form2_FC0L_203S42_SJ2756804.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB2-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 11:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-37 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.535 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 20:14:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 229 | 2.99 (L) | 1:50 |
| **PFPeA** | | 7.86 | 1.49 (L) | 4:24 |
| **PFHxA** | | 4.11 | 0.747 (L) | 5:00 |
| **PFHpA** | | 1.58 | 0.747 (L) | 5:28 |
| **PFOA** | | 12.7 | 0.747 (L) | |
| **PFNA** | U | | 0.747 (L) | |
| **PFDA** | U | | 0.747 (L) | |
| **PFUnA** | U | | 0.747 (L) | |
| **PFDoA** | U | | 0.747 (L) | |
| **PFTrDA** | U | | 0.747 (L) | |
| **PFTeDA** | U | | 0.747 (L) | |
| **PFBS** | | 2.72 | 0.747 (L) | 4:58 |
| **PFPeS** | J | 0.921 | 0.747 (L) | 5:29 |
| **PFHxS** | | 3.37 | 0.747 (L) | |
| **PFHpS** | U | | 0.747 (L) | |
| **PFOS** | | 14.1 | 0.747 (L) | |
| **PFNS** | U | | 0.747 (L) | |
| **PFDS** | U | | 0.747 (L) | |
| **PFDoS** | U | | 0.747 (L) | |
| **4:2 FTS** | U | | 2.99 (L) | |
| **6:2 FTS** | U | | 2.69 (L) | |
| **8:2 FTS** | U | | 2.99 (L) | |
| **PFOSA** | U | | 0.747 (L) | |
| **N-MeFOSA** | U | | 0.859 (L) | |
| **N-EtFOSA** | U | | 1.87 (L) | |
| **MeFOSAA** | U | | 0.747 (L) | |
| **EtFOSAA** | U | | 0.747 (L) | |
| **N-MeFOSE** | U | | 7.47 (L) | |
| **N-EtFOSE** | U | | 5.60 (L) | |
| **HFPO-DA** | U | | 2.84 (L) | |
| **ADONA** | U | | 2.99 (L) | |
| **9Cl-PF3ONS** | U | | 2.99 (L) | |
| **11Cl-PF3OUdS** | U | | 2.99 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-37_Form1A_FC0L_203S43_SJ2756805.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB2-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 11:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-37 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.535 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 20:14:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 6.73 | 16.8 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.2 | 101 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.68 | 96.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.96 | 89.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.75 | 87.5 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.48 | 89.6 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.47 | 89.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.60 | 91.9 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.27 | 85.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.13 | 62.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.69 | 96.9 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 9.31 | 93.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.82 | 98.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.2 | 106 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 18.4 | 91.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.9 | 104 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.48 | 94.8 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.92 | 89.2 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.48 | 84.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.2 | 95.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.8 | 89.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 89.5 | 89.5 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 83.9 | 83.9 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.9 | 97.3 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-37_Form2_FC0L_203S43_SJ2756805.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 13:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-38 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 20:27:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 235 | 2.95 (L) | 1:50 |
| **PFPeA** | | 7.93 | 1.48 (L) | 4:24 |
| **PFHxA** | | 3.55 | 0.738 (L) | 5:00 |
| **PFHpA** | J | 1.40 | 0.738 (L) | 5:28 |
| **PFOA** | | 12.1 | 0.738 (L) | |
| **PFNA** | U | | 0.738 (L) | |
| **PFDA** | U | | 0.738 (L) | |
| **PFUnA** | U | | 0.738 (L) | |
| **PFDoA** | U | | 0.738 (L) | |
| **PFTrDA** | U | | 0.738 (L) | |
| **PFTeDA** | U | | 0.738 (L) | |
| **PFBS** | | 2.24 | 0.738 (L) | 4:58 |
| **PFPeS** | J | 0.921 | 0.738 (L) | 5:29 |
| **PFHxS** | | 3.25 | 0.738 (L) | |
| **PFHpS** | U | | 0.738 (L) | |
| **PFOS** | | 14.4 | 0.738 (L) | |
| **PFNS** | U | | 0.738 (L) | |
| **PFDS** | U | | 0.738 (L) | |
| **PFDoS** | U | | 0.738 (L) | |
| **4:2 FTS** | U | | 2.95 (L) | |
| **6:2 FTS** | U | | 2.66 (L) | |
| **8:2 FTS** | U | | 2.95 (L) | |
| **PFOSA** | U | | 0.738 (L) | |
| **N-MeFOSA** | U | | 0.849 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.738 (L) | |
| **EtFOSAA** | U | | 0.738 (L) | |
| **N-MeFOSE** | U | | 7.38 (L) | |
| **N-EtFOSE** | U | | 5.54 (L) | |
| **HFPO-DA** | U | | 2.80 (L) | |
| **ADONA** | U | | 2.95 (L) | |
| **9Cl-PF3ONS** | U | | 2.95 (L) | |
| **11Cl-PF3OUdS** | U | | 2.95 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-38_Form1A_FC0L_203S44_SJ2756806.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 13:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-38 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.542 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 20:27:57 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 8.77 | 21.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 93.1 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.87 | 98.7 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.19 | 91.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.58 | 85.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.44 | 88.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.72 | 94.4 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.50 | 90.0 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.43 | 88.6 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.16 | 63.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.66 | 96.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.96 | 89.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.90 | 99.0 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.3 | 101 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.7 | 88.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.7 | 108 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.36 | 93.6 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 8.60 | 86.0 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.58 | 85.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.2 | 96.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.7 | 93.3 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 91.6 | 91.6 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 87.4 | 87.4 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 39.8 | 99.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-38_Form2_FC0L_203S44_SJ2756806.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-02-050420**
**Sample Collection:**
**04-May-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-39 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.538 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:20:02 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 778 | 2.97 (L) | 1:50 |
| **PFPeA** | | 91.2 | 1.49 (L) | 4:24 |
| **PFHxA** | | 202 | 0.744 (L) | 5:00 |
| **PFHpA** | | 192 | 0.744 (L) | 5:28 |
| **PFOA** | | 1690 | 0.786 (S) | |
| **PFNA** | | 10.7 | 0.744 (L) | |
| **PFDA** | | 8.88 | 0.744 (L) | 7:33 |
| **PFUnA** | U | | 0.744 (L) | |
| **PFDoA** | U | | 0.744 (L) | |
| **PFTrDA** | U | | 0.744 (L) | |
| **PFTeDA** | U | | 0.744 (L) | |
| **PFBS** | | 59.3 | 0.744 (L) | 4:58 |
| **PFPeS** | | 72.3 | 0.744 (L) | 5:29 |
| **PFHxS** | | 174 | 0.744 (L) | |
| **PFHpS** | | 61.4 | 0.744 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.744 (L) | |
| **PFDS** | U | | 0.744 (L) | |
| **PFDoS** | U | | 0.744 (L) | |
| **4:2 FTS** | U | | 2.97 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.97 (L) | |
| **PFOSA** | | 32.9 | 0.744 (L) | |
| **N-MeFOSA** | U | | 0.855 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.744 (L) | |
| **EtFOSAA** | | 23.4 | 0.744 (L) | |
| **N-MeFOSE** | U | | 7.44 (L) | |
| **N-EtFOSE** | U | | 5.58 (L) | |
| **HFPO-DA** | U | | 2.83 (L) | |
| **ADONA** | U | | 2.97 (L) | |
| **9Cl-PF3ONS** | U | | 2.97 (L) | |
| **11Cl-PF3OUdS** | U | | 2.97 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-39_Form1A_FC0L_203S48_SJ2756811.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-02-050420**
**Sample Collection:**
**04-May-2020 12:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-39 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.538 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:20:02 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.5 | 86.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 96.1 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.28 | 92.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 10.7 | 107 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.69 | 86.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.23 | 84.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.02 | 100 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.13 | 103 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 5.05 | 101 | 8:09 |
| **13C2-PFTeDA** | | 5.00 | 4.06 | 81.1 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.56 | 95.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.20 | 92.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:39 |
| **13C2-4:2 FTS** | | 20.0 | 24.9 | 125 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 14.6 | 73.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.3 | 96.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 14.1 | 141 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 12.2 | 122 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 12.3 | 123 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 25.7 | 129 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 26.4 | 132 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 139 | 139 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 136 | 136 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 37.8 | 94.4 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-39_Form2_FC0L_203S48_SJ2756811.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-02-050420**
**Sample Collection:**
**04-May-2020 12:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-39 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.538 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 22:51:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 3140 | 3.72 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-39_Form1A_FC0L_203S55_SJ2756818.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-02-050420**
**Sample Collection:**
**04-May-2020 12:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-39 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.538 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 22:51:05 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.55 | 95.5 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-39_Form2_FC0L_203S55_SJ2756818.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420**
**Sample Collection:**
**04-May-2020 12:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-40 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:46:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 779 | 2.92 (L) | 1:50 |
| **PFPeA** | | 91.6 | 1.46 (L) | 4:24 |
| **PFHxA** | | 198 | 0.731 (L) | 5:00 |
| **PFHpA** | | 205 | 0.731 (L) | 5:28 |
| **PFOA** | E | | | |
| **PFNA** | | 10.1 | 0.731 (L) | |
| **PFDA** | | 8.96 | 0.731 (L) | 7:33 |
| **PFUnA** | U | | 0.731 (L) | |
| **PFDoA** | U | | 0.731 (L) | |
| **PFTrDA** | U | | 0.731 (L) | |
| **PFTeDA** | U | | 0.731 (L) | |
| **PFBS** | | 55.4 | 0.731 (L) | 4:58 |
| **PFPeS** | | 76.0 | 0.731 (L) | 5:29 |
| **PFHxS** | | 180 | 0.731 (L) | |
| **PFHpS** | | 61.5 | 0.731 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.731 (L) | |
| **PFDS** | U | | 0.731 (L) | |
| **PFDoS** | U | | 0.731 (L) | |
| **4:2 FTS** | U | | 2.92 (L) | |
| **6:2 FTS** | J | 3.02 | 2.63 (L) | 5:53 |
| **8:2 FTS** | U | | 2.92 (L) | |
| **PFOSA** | | 33.1 | 0.731 (L) | |
| **N-MeFOSA** | U | | 0.840 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.731 (L) | |
| **EtFOSAA** | | 27.5 | 0.731 (L) | |
| **N-MeFOSE** | U | | 7.31 (L) | |
| **N-EtFOSE** | U | | 5.48 (L) | |
| **HFPO-DA** | U | | 2.78 (L) | |
| **ADONA** | U | | 2.92 (L) | |
| **9Cl-PF3ONS** | U | | 2.92 (L) | |
| **11Cl-PF3OUdS** | U | | 2.92 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-40_Form1A_FC0L_203S50_SJ2756813.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420**
**Sample Collection:**
**04-May-2020 12:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-40 (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:46:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.0 | 84.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.7 | 98.3 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.35 | 93.5 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 10.9 | 109 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.85 | 88.5 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.39 | 87.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.77 | 95.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.61 | 92.3 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.45 | 89.0 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.51 | 70.1 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.81 | 98.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.74 | 87.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.80 | 98.0 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.9 | 119 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 14.8 | 73.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.4 | 96.8 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 13.5 | 135 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 12.6 | 126 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 12.1 | 121 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 25.5 | 127 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 27.4 | 137 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 137 | 137 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 130 | 130 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 36.9 | 92.2 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-40_Form2_FC0L_203S50_SJ2756813.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420**
**Sample Collection:**
**04-May-2020 12:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-40 N (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 23:04:02 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | D | 1660 | 3.65 (L) | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 3170 | 3.65 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420**
**Sample Collection:**
**04-May-2020 12:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-40 N (A) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 23:04:02 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | D | 10.0 | 8.76 | 87.6 | 6:11 |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-40_Form2_FC0L_203S56_SJ2756819.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG72595-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 16:46:36 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 16:46:36 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.5 | 88.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.91 | 99.1 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.62 | 96.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.71 | 87.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.27 | 85.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.20 | 104 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.03 | 101 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.57 | 91.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.76 | 75.3 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.61 | 96.1 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 9.42 | 94.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.6 | 106 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.5 | 102 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 20.7 | 104 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 23.1 | 115 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.63 | 86.3 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 7.63 | 76.3 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 7.74 | 77.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.5 | 97.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.2 | 96.2 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 90.7 | 90.7 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 85.2 | 85.2 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 42.2 | 105 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-101_Form2_FC0L_203S27_SJ2756789.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 16:20:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_203 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 38.9 | 97.3 | 1:51 |
| **PFPeA** | | 20.0 | 19.1 | 95.6 | 4:24 |
| **PFHxA** | | 10.0 | 9.04 | 90.4 | 5:00 |
| **PFHpA** | | 10.0 | 9.17 | 91.7 | 5:28 |
| **PFOA** | | 10.0 | 8.89 | 88.9 | |
| **PFNA** | | 10.0 | 9.79 | 97.9 | |
| **PFDA** | | 10.0 | 8.70 | 87.0 | 7:33 |
| **PFUnA** | | 10.0 | 9.69 | 96.9 | 7:53 |
| **PFDoA** | | 10.0 | 8.71 | 87.1 | 8:08 |
| **PFTrDA** | | 10.0 | 8.86 | 88.6 | 8:27 |
| **PFTeDA** | | 10.0 | 10.1 | 101 | 8:51 |
| **PFBS** | | 10.0 | 9.39 | 93.9 | 4:58 |
| **PFPeS** | | 10.0 | 10.5 | 105 | 5:29 |
| **PFHxS** | | 10.0 | 9.37 | 93.7 | |
| **PFHpS** | | 10.0 | 9.14 | 91.4 | 7:09 |
| **PFOS** | | 10.0 | 8.36 | 83.6 | |
| **PFNS** | | 10.0 | 8.08 | 80.8 | 7:58 |
| **PFDS** | | 10.0 | 8.50 | 85.0 | 8:14 |
| **PFDoS** | | 10.0 | 8.39 | 83.9 | 9:01 |
| **4:2 FTS** | | 40.0 | 37.6 | 93.9 | 4:53 |
| **6:2 FTS** | | 36.1 | 33.0 | 91.6 | 5:54 |
| **8:2 FTS** | | 40.0 | 36.0 | 90.0 | 7:23 |
| **PFOSA** | | 10.0 | 10.3 | 103 | |
| **N-MeFOSA** | | 11.5 | 11.5 | 100 | |
| **N-EtFOSA** | | 25.0 | 20.5 | 81.9 | |
| **MeFOSAA** | | 10.0 | 10.6 | 106 | |
| **EtFOSAA** | | 10.0 | 9.17 | 91.7 | |
| **N-MeFOSE** | | 100 | 99.0 | 99.0 | |
| **N-EtFOSE** | | 75.0 | 76.1 | 102 | |
| **HFPO-DA** | | 38.0 | 38.1 | 100 | 5:09 |
| **ADONA** | | 40.0 | 39.1 | 97.7 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 38.7 | 96.7 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 35.6 | 88.9 | 8:28 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-102_Form8A_SJ2756785.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-102 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 16:20:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_203 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 21 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.9 | 89.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.65 | 96.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.23 | 92.3 | 6:12 |
| **13C9-PFNA** | | 5.00 | 4.37 | 87.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 5.06 | 101 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.37 | 87.3 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.65 | 92.9 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.70 | 73.9 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.79 | 97.9 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.16 | 91.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.8 | 108 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.9 | 94.6 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 18.6 | 93.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.2 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.05 | 90.5 | 8:45 |
| **D3-N-MeFOSA** | | 10.0 | 7.83 | 78.3 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 8.49 | 84.9 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.1 | 101 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.8 | 99.0 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 94.2 | 94.2 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 90.0 | 90.0 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.8 | 97.0 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-102_Form8B_SJ2756785.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8C**
**PERFLUORINATED ORGANICS MATRIX SPIKE (MS) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MS)**
**Sample Collection:**
**04-May-2020 12:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:59:01 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MS Data Filename:** | **FC0L_203 S: 51, FC0L_203 S: 57** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| | | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MS R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 375 | | 779 | 1130 | 93.5 | 1.24 |
| **PFPeA** | | N/A | 188 | | 91.6 | 269 | 94.5 | 0.512 |
| **PFHxA** | | N/A | 93.8 | | 198 | 268 | 75.3 | 3.78 |
| **PFHpA** | | N/A | 93.8 | | 205 | 287 | 88.1 | 1.45 |
| **PFOA** | D | N/A | 93.8 | D | 1660 | 1840 | 184 | 2.72 |
| **PFNA** | | N/A | 93.8 | | 10.1 | 99.9 | 95.8 | 0.955 |
| **PFDA** | | N/A | 93.8 | | 8.96 | 93.3 | 90.0 | 5.95 |
| **PFUnA** | | N/A | 93.8 | U | | 91.5 | 97.6 | 5.63 |
| **PFDoA** | | N/A | 93.8 | U | | 88.1 | 94.0 | 0.366 |
| **PFTrDA** | | N/A | 93.8 | U | | 81.9 | 87.3 | 2.82 |
| **PFTeDA** | | N/A | 93.8 | U | | 88.7 | 94.6 | 5.21 |
| **PFBS** | | N/A | 93.8 | | 55.4 | 137 | 87.2 | 2.75 |
| **PFPeS** | | N/A | 93.8 | | 76.0 | 168 | 97.8 | 2.53 |
| **PFHxS** | | N/A | 93.8 | | 180 | 271 | 97.4 | 3.32 |
| **PFHpS** | | N/A | 93.8 | | 61.5 | 187 | 133 | 4.50 |
| **PFOS** | D | N/A | 93.8 | D | 3170 | 3150 | | 7.12 |
| **PFNS** | | N/A | 93.8 | U | | 137 | 147 | 9.75 |
| **PFDS** | | N/A | 93.8 | U | | 120 | 128 | 10.8 |
| **PFDoS** | | N/A | 93.8 | U | | 113 | 120 | 9.32 |
| **4:2 FTS** | | N/A | 375 | U | | 369 | 98.3 | 3.70 |
| **6:2 FTS** | | N/A | 338 | J | 3.02 | 319 | 93.4 | 1.32 |
| **8:2 FTS** | | N/A | 375 | U | | 319 | 85.0 | 11.0 |
| **PFOSA** | | N/A | 93.8 | | 33.1 | 122 | 94.5 | 3.32 |
| **N-MeFOSA** | | N/A | 108 | U | | 106 | 98.6 | 1.93 |
| **N-EtFOSA** | | N/A | 234 | U | | 206 | 88.0 | 1.38 |
| **MeFOSAA** | | N/A | 93.8 | U | | 88.5 | 94.4 | 8.15 |
| **EtFOSAA** | | N/A | 93.8 | | 27.5 | 104 | 81.7 | 8.66 |
| **N-MeFOSE** | | N/A | 938 | U | | 915 | 97.5 | 1.09 |
| **N-EtFOSE** | | N/A | 703 | U | | 696 | 99.0 | 0.279 |
| **HFPO-DA** | | N/A | 356 | U | | 347 | 97.5 | 4.31 |
| **ADONA** | | N/A | 375 | U | | 377 | 100 | 6.48 |
| **9Cl-PF3ONS** | | N/A | 375 | U | | 362 | 96.6 | 12.9 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MS | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 375 | U | | 348 | 92.7 | 11.9 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; D = dilution data; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 14-Jul-2020 10:15:34; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72595-103_L33068-40_Form8C.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MS)**
**Sample Collection: 04-May-2020 12:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:59:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1130 | 3.00 (L) | 1:50 |
| **PFPeA** | | 269 | 1.50 (L) | 4:24 |
| **PFHxA** | | 268 | 0.750 (L) | 5:00 |
| **PFHpA** | | 287 | 0.750 (L) | 5:28 |
| **PFOA** | E | | | |
| **PFNA** | | 99.9 | 0.750 (L) | |
| **PFDA** | | 93.3 | 0.750 (L) | 7:33 |
| **PFUnA** | | 91.5 | 0.750 (L) | 7:53 |
| **PFDoA** | | 88.1 | 0.750 (L) | 8:08 |
| **PFTrDA** | | 81.9 | 0.750 (L) | 8:27 |
| **PFTeDA** | | 88.7 | 0.750 (L) | 8:50 |
| **PFBS** | | 137 | 0.750 (L) | 4:58 |
| **PFPeS** | | 168 | 0.750 (L) | 5:29 |
| **PFHxS** | | 271 | 0.750 (L) | |
| **PFHpS** | | 187 | 0.750 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | | 137 | 0.750 (L) | 7:58 |
| **PFDS** | | 120 | 0.750 (L) | 8:14 |
| **PFDoS** | | 113 | 0.750 (L) | 9:01 |
| **4:2 FTS** | | 369 | 3.00 (L) | 4:53 |
| **6:2 FTS** | | 319 | 2.70 (L) | 5:53 |
| **8:2 FTS** | | 319 | 3.00 (L) | 7:23 |
| **PFOSA** | | 122 | 0.750 (L) | |
| **N-MeFOSA** | | 106 | 0.863 (L) | |
| **N-EtFOSA** | | 206 | 1.88 (L) | |
| **MeFOSAA** | | 88.5 | 0.750 (L) | |
| **EtFOSAA** | | 104 | 0.750 (L) | |
| **N-MeFOSE** | | 915 | 7.50 (L) | |
| **N-EtFOSE** | | 696 | 5.63 (L) | |
| **HFPO-DA** | | 347 | 2.85 (L) | 5:09 |
| **ADONA** | | 377 | 3.00 (L) | 5:41 |
| **9Cl-PF3ONS** | | 362 | 3.00 (L) | 7:52 |
| **11Cl-PF3OUdS** | | 348 | 3.00 (L) | 8:28 |

(1) Where applicable, custom lab flags have been used on this report; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-103_Form1A_FC0L_203S51_SJ2756814.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MS)**
**Sample Collection: 04-May-2020 12:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-103 (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 21:59:01 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 27.8 | 69.5 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 10.5 | 105 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.63 | 86.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.40 | 87.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.19 | 83.9 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.49 | 89.8 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.82 | 76.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.53 | 95.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.65 | 86.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.2 | 95.8 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 12.9 | 64.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 16.3 | 81.6 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 14.1 | 141 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 13.1 | 131 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 12.2 | 122 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 27.4 | 137 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 30.4 | 152 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 140 | 140 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 134 | 134 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 38.6 | 96.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-103_Form2_FC0L_203S51_SJ2756814.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MS)**
**Sample Collection: 04-May-2020 12:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-103 N (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 23:17:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 57** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | D | 1840 | 3.75 (L) | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 3150 | 3.75 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-103_Form1A_FC0L_203S57_SJ2756820.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MS)**
**Sample Collection: 04-May-2020 12:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-103 N (MS) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 23:17:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 57** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | D | 10.0 | 8.59 | 85.9 | 6:11 |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 10.4 | 104 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-103_Form2_FC0L_203S57_SJ2756820.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8E**
**PERFLUORINATED ORGANICS MATRIX SPIKE DUPLICATE (MSD) ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MSD)**
**Sample Collection:**
**04-May-2020 12:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.525 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 22:11:58 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **MSD Data Filename:** | **FC0L_203 S: 52, FC0L_203 S: 58** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| | | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS ON SAMPLE SIZE BASIS**

| COMPOUND | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC (ng/L) | SAMPLE LAB FLAG [1] | SAMPLE CONC (ng/L) | CONC. FOUND (ng/L) | MSD R% [2] | REL % DIFF |
|---|---|---|---|---|---|---|---|---|
| **PFBA** | | N/A | 381 | | 779 | 1140 | 95.7 | 1.24 |
| **PFPeA** | | N/A | 191 | | 91.6 | 270 | 93.7 | 0.512 |
| **PFHxA** | | N/A | 95.3 | | 198 | 279 | 84.9 | 3.78 |
| **PFHpA** | | N/A | 95.3 | | 205 | 283 | 82.3 | 1.45 |
| **PFOA** | D | N/A | 95.3 | D | 1660 | 1790 | 130 | 2.72 |
| **PFNA** | | N/A | 95.3 | | 10.1 | 98.9 | 93.3 | 0.955 |
| **PFDA** | | N/A | 95.3 | | 8.96 | 99.0 | 94.6 | 5.95 |
| **PFUnA** | | N/A | 95.3 | U | | 86.5 | 90.8 | 5.63 |
| **PFDoA** | | N/A | 95.3 | U | | 88.4 | 92.8 | 0.366 |
| **PFTrDA** | | N/A | 95.3 | U | | 84.2 | 88.4 | 2.82 |
| **PFTeDA** | | N/A | 95.3 | U | | 93.4 | 98.1 | 5.21 |
| **PFBS** | | N/A | 95.3 | | 55.4 | 141 | 89.8 | 2.75 |
| **PFPeS** | | N/A | 95.3 | | 76.0 | 164 | 91.9 | 2.53 |
| **PFHxS** | | N/A | 95.3 | | 180 | 262 | 86.5 | 3.32 |
| **PFHpS** | | N/A | 95.3 | | 61.5 | 195 | 140 | 4.50 |
| **PFOS** | D | N/A | 95.3 | D | 3170 | 3390 | 227 | 7.12 |
| **PFNS** | | N/A | 95.3 | U | | 152 | 159 | 9.75 |
| **PFDS** | | N/A | 95.3 | U | | 133 | 140 | 10.8 |
| **PFDoS** | | N/A | 95.3 | U | | 124 | 130 | 9.32 |
| **4:2 FTS** | | N/A | 381 | U | | 383 | 100 | 3.70 |
| **6:2 FTS** | | N/A | 343 | J | 3.02 | 315 | 90.7 | 1.32 |
| **8:2 FTS** | | N/A | 381 | U | | 356 | 93.4 | 11.0 |
| **PFOSA** | | N/A | 95.3 | | 33.1 | 126 | 97.4 | 3.32 |
| **N-MeFOSA** | | N/A | 110 | U | | 108 | 98.9 | 1.93 |
| **N-EtFOSA** | | N/A | 238 | U | | 209 | 87.8 | 1.38 |
| **MeFOSAA** | | N/A | 95.3 | U | | 96.1 | 101 | 8.15 |
| **EtFOSAA** | | N/A | 95.3 | | 27.5 | 114 | 90.3 | 8.66 |
| **N-MeFOSE** | | N/A | 953 | U | | 925 | 97.1 | 1.09 |
| **N-EtFOSE** | | N/A | 714 | U | | 698 | 97.7 | 0.279 |
| **HFPO-DA** | | N/A | 362 | U | | 363 | 100 | 4.31 |
| **ADONA** | | N/A | 381 | U | | 402 | 105 | 6.48 |
| **9Cl-PF3ONS** | | N/A | 381 | U | | 412 | 108 | 12.9 |

| COMPOUND | LAB | ION | SPIKE | SAMPLE | SAMPLE | CONC. | MSD | REL |
|---|---|---|---|---|---|---|---|---|

| | FLAG [1] | ABUND. RATIO | CONC (ng/L) | LAB FLAG [1] | CONC (ng/L) | FOUND (ng/L) | R% [2] | % DIFF |
|---|---|---|---|---|---|---|---|---|
| **11Cl-PF3OUdS** | | N/A | 381 | U | | 392 | 103 | 11.9 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; D = dilution data; J = concentration less than limit of quantification.
(2) R% = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: MS.xsl; Created: 14-Jul-2020 10:15:34; Application: XMLTransformer-1.18.8;
Report Filename: MS_FC_LC_PFAS-MS-MSD_WG72595-104_L33068-40_Form8E.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MSD)**
**Sample Collection: 04-May-2020 12:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-104 (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.525 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 22:11:58 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 1140 | 3.05 (L) | 1:50 |
| **PFPeA** | | 270 | 1.52 (L) | 4:24 |
| **PFHxA** | | 279 | 0.762 (L) | 5:00 |
| **PFHpA** | | 283 | 0.762 (L) | 5:28 |
| **PFOA** | E | | | |
| **PFNA** | | 98.9 | 0.762 (L) | |
| **PFDA** | | 99.0 | 0.762 (L) | 7:33 |
| **PFUnA** | | 86.5 | 0.762 (L) | 7:53 |
| **PFDoA** | | 88.4 | 0.762 (L) | 8:09 |
| **PFTrDA** | | 84.2 | 0.762 (L) | 8:27 |
| **PFTeDA** | | 93.4 | 0.762 (L) | 8:51 |
| **PFBS** | | 141 | 0.762 (L) | 4:58 |
| **PFPeS** | | 164 | 0.762 (L) | 5:29 |
| **PFHxS** | | 262 | 0.762 (L) | |
| **PFHpS** | | 195 | 0.762 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | | 152 | 0.762 (L) | 7:58 |
| **PFDS** | | 133 | 0.762 (L) | 8:15 |
| **PFDoS** | | 124 | 0.762 (L) | 9:01 |
| **4:2 FTS** | | 383 | 3.05 (L) | 4:53 |
| **6:2 FTS** | | 315 | 2.74 (L) | 5:53 |
| **8:2 FTS** | | 356 | 3.05 (L) | 7:23 |
| **PFOSA** | | 126 | 0.762 (L) | |
| **N-MeFOSA** | | 108 | 0.876 (L) | |
| **N-EtFOSA** | | 209 | 1.91 (L) | |
| **MeFOSAA** | | 96.1 | 0.762 (L) | |
| **EtFOSAA** | | 114 | 0.762 (L) | |
| **N-MeFOSE** | | 925 | 7.62 (L) | |
| **N-EtFOSE** | | 698 | 5.72 (L) | |
| **HFPO-DA** | | 363 | 2.90 (L) | 5:09 |
| **ADONA** | | 402 | 3.05 (L) | 5:41 |
| **9Cl-PF3ONS** | | 412 | 3.05 (L) | 7:53 |
| **11Cl-PF3OUdS** | | 392 | 3.05 (L) | 8:28 |

(1) Where applicable, custom lab flags have been used on this report; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-104_Form1A_FC0L_203S52_SJ2756815.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MSD)**
**Sample Collection: 04-May-2020 12:05**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | WG72595-104 (MSD) |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.525 L |
| **Extraction Date:** | 23-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 23-Jun-2020 **Time:** 22:11:58 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_203 S: 52** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Concentration Units:** | ng absolute | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 28.9 | 72.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.6 | 98.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.58 | 95.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 10.9 | 109 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.07 | 90.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.65 | 93.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.49 | 89.8 | 7:53 |
| **13C2-PFDoA** | | 5.00 | 4.73 | 94.6 | 8:09 |
| **13C2-PFTeDA** | | 5.00 | 3.77 | 75.4 | 8:51 |
| **13C3-PFBS** | | 10.0 | 9.54 | 95.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.96 | 89.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.97 | 99.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.6 | 98.2 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 13.1 | 65.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 15.8 | 78.9 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 14.4 | 144 | 8:44 |
| **D3-N-MeFOSA** | | 10.0 | 14.4 | 144 | 10:09 |
| **D5-N-EtFOSA** | | 10.0 | 13.4 | 134 | 10:27 |
| **D3-MeFOSAA** | | 20.0 | 27.0 | 135 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 28.3 | 142 | 7:45 |
| **d7-NMe-FOSE** | | 100 | 147 | 147 | 10:01 |
| **d9-NEt-FOSE** | | 100 | 144 | 144 | 10:19 |
| **13C3-HFPO-DA** | | 40.0 | 34.7 | 86.6 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_WG72595-104_Form2_FC0L_203S52_SJ2756815.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MSD)**
**Sample Collection: 04-May-2020 12:05**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-104 N (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.525 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 23:30:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 58** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | D | 1790 | 3.81 (L) | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 3390 | 3.81 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-104_Form1A_FC0L_203S58_SJ2756821.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-03-050420 (MSD)**
**Sample Collection: 04-May-2020 12:05**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72595-104 N (MSD) |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.525 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 23-Jun-2020 **Time:** 23:30:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_203 S: 58** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_203 S: 27 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_203 S: 46 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | D | 10.0 | 9.00 | 90.0 | 6:11 |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.65 | 96.5 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72595-104_Form2_FC0L_203S58_SJ2756821.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87849.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS87849.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87849.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 21 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 13:57:13 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:54 | 40.0 | 39.0 | 97.5 |
| **PFPeA** | | 4:25 | 20.0 | 18.7 | 93.6 |
| **PFHxA** | | 5:00 | 10.0 | 9.32 | 93.2 |
| **PFHpA** | | 5:28 | 10.0 | 9.26 | 92.6 |
| **PFOA** | | 6:12 | 10.0 | 9.14 | 91.4 |
| **PFNA** | | 7:03 | 10.0 | 9.65 | 96.5 |
| **PFDA** | | 7:33 | 10.0 | 8.64 | 86.4 |
| **PFUnA** | | 7:53 | 10.0 | 9.57 | 95.7 |
| **PFDoA** | | 8:08 | 10.0 | 10.0 | 100 |
| **PFTrDA** | | 8:27 | 10.0 | 9.63 | 96.3 |
| **PFTeDA** | | 8:51 | 10.0 | 9.97 | 99.7 |
| **PFBS** | | 4:58 | 10.0 | 9.46 | 94.6 |
| **PFPeS** | | 5:30 | 10.0 | 10.1 | 101 |
| **PFHxS** | | 6:18 | 10.0 | 9.52 | 95.2 |
| **PFHpS** | | 7:09 | 10.0 | 9.64 | 96.4 |
| **PFOS** | | 7:39 | 10.0 | 9.29 | 92.9 |
| **PFNS** | | 7:58 | 10.0 | 8.43 | 84.3 |
| **PFDS** | | 8:15 | 10.0 | 9.80 | 98.0 |
| **PFDoS** | | 9:01 | 10.0 | 10.0 | 100 |
| **4:2 FTS** | | 4:53 | 40.0 | 39.6 | 99.1 |
| **6:2 FTS** | | 5:54 | 36.0 | 34.4 | 95.6 |
| **8:2 FTS** | | 7:23 | 40.0 | 39.0 | 97.5 |
| **PFOSA** | | 8:45 | 10.0 | 9.82 | 98.2 |
| **N-MeFOSA** | | 10:10 | 11.5 | 12.2 | 106 |
| **N-EtFOSA** | | 10:27 | 25.0 | 23.1 | 92.3 |
| **MeFOSAA** | | 7:36 | 10.0 | 12.0 | 120 |
| **EtFOSAA** | | 7:45 | 10.0 | 10.4 | 104 |
| **N-MeFOSE** | | 10:02 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:20 | 75.0 | 74.3 | 99.0 |
| **HFPO-DA** | | 5:09 | 40.0 | 38.2 | 95.5 |
| **ADONA** | | 5:42 | 40.0 | 40.6 | 101 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 41.8 | 104 |
| **11Cl-PF3OUdS** | | 8:28 | 40.0 | 42.8 | 107 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S21__Form4A_SJ2756780.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 21 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 13:57:13 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.0 | 97.5 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 22.7 | 113 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.6 | 106 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.5 | 105 |
| **13C8-PFOA** | | 6:12 | 10.0 | 9.69 | 96.9 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.98 | 99.6 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.59 | 112 |
| **13C7-PFUnA** | | 7:53 | 5.00 | 4.94 | 98.9 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.24 | 105 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.72 | 94.5 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.93 | 108 |
| **13C3-PFHxS** | | 6:18 | 10.0 | 9.96 | 99.6 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.3 | 103 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 17.1 | 85.7 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 17.9 | 89.6 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 19.4 | 96.8 |
| **13C8-PFOSA** | | 8:45 | 10.0 | 9.91 | 99.1 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 10.3 | 103 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.3 | 103 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 16.2 | 81.2 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 18.3 | 91.7 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 99.2 | 99.2 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 101 | 101 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 40.0 | 100 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S21__Form4B_SJ2756780.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 45 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:40:54 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:53 | 40.0 | 39.3 | 98.2 |
| **PFPeA** | | 4:25 | 20.0 | 18.9 | 94.4 |
| **PFHxA** | | 5:01 | 10.0 | 9.30 | 93.0 |
| **PFHpA** | | 5:29 | 10.0 | 9.32 | 93.2 |
| **PFOA** | | 6:12 | 10.0 | 9.31 | 93.1 |
| **PFNA** | | 7:03 | 10.0 | 9.24 | 92.4 |
| **PFDA** | | 7:33 | 10.0 | 8.93 | 89.3 |
| **PFUnA** | | 7:53 | 10.0 | 9.33 | 93.3 |
| **PFDoA** | | 8:09 | 10.0 | 10.1 | 101 |
| **PFTrDA** | | 8:27 | 10.0 | 9.78 | 97.8 |
| **PFTeDA** | | 8:51 | 10.0 | 10.0 | 100 |
| **PFBS** | | 4:58 | 10.0 | 9.55 | 95.5 |
| **PFPeS** | | 5:30 | 10.0 | 10.3 | 103 |
| **PFHxS** | | 6:17 | 10.0 | 9.79 | 97.9 |
| **PFHpS** | | 7:09 | 10.0 | 9.33 | 93.3 |
| **PFOS** | | 7:39 | 10.0 | 8.82 | 88.2 |
| **PFNS** | | 7:58 | 10.0 | 9.61 | 96.1 |
| **PFDS** | | 8:15 | 10.0 | 8.55 | 85.5 |
| **PFDoS** | | 9:01 | 10.0 | 9.07 | 90.7 |
| **4:2 FTS** | | 4:53 | 40.0 | 39.1 | 97.9 |
| **6:2 FTS** | | 5:54 | 36.0 | 34.2 | 95.1 |
| **8:2 FTS** | | 7:23 | 40.0 | 38.7 | 96.7 |
| **PFOSA** | | 8:44 | 10.0 | 9.68 | 96.8 |
| **N-MeFOSA** | | 10:10 | 11.5 | 11.3 | 98.2 |
| **N-EtFOSA** | | 10:27 | 25.0 | 22.7 | 90.6 |
| **MeFOSAA** | | 7:37 | 10.0 | 10.1 | 101 |
| **EtFOSAA** | | 7:45 | 10.0 | 9.37 | 93.7 |
| **N-MeFOSE** | | 10:03 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:20 | 75.0 | 74.4 | 99.2 |
| **HFPO-DA** | | 5:09 | 40.0 | 38.5 | 96.2 |
| **ADONA** | | 5:41 | 40.0 | 41.9 | 105 |
| **9Cl-PF3ONS** | | 7:53 | 40.0 | 40.4 | 101 |
| **11Cl-PF3OUdS** | | 8:29 | 40.0 | 40.0 | 100 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S45__Form4A_SJ2756807.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 45 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:40:54 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 38.4 | 96.0 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 21.0 | 105 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.4 | 104 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.5 | 105 |
| **13C8-PFOA** | | 6:12 | 10.0 | 9.86 | 98.6 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.13 | 103 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.46 | 109 |
| **13C7-PFUnA** | | 7:53 | 5.00 | 4.96 | 99.3 |
| **13C2-PFDoA** | | 8:09 | 5.00 | 4.96 | 99.3 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.38 | 87.5 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.75 | 106 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 9.99 | 99.9 |
| **13C8-PFOS** | | 7:39 | 10.0 | 10.7 | 107 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 18.0 | 90.1 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 19.5 | 97.5 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 21.8 | 109 |
| **13C8-PFOSA** | | 8:45 | 10.0 | 9.74 | 97.4 |
| **D3-N-MeFOSA** | | 10:10 | 10.0 | 10.2 | 102 |
| **D5-N-EtFOSA** | | 10:27 | 10.0 | 9.97 | 99.7 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 18.9 | 94.5 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 19.5 | 97.3 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 97.4 | 97.4 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 95.8 | 95.8 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 38.8 | 97.0 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S45__Form4B_SJ2756807.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 46 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:53:59 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:53 | 40.0 | 38.8 | 97.1 |
| **PFPeA** | | 4:25 | 20.0 | 19.3 | 96.6 |
| **PFHxA** | | 5:00 | 10.0 | 9.66 | 96.6 |
| **PFHpA** | | 5:28 | 10.0 | 9.29 | 92.9 |
| **PFOA** | | 6:12 | 10.0 | 9.60 | 96.0 |
| **PFNA** | | 7:02 | 10.0 | 9.95 | 99.5 |
| **PFDA** | | 7:33 | 10.0 | 9.06 | 90.6 |
| **PFUnA** | | 7:53 | 10.0 | 10.3 | 103 |
| **PFDoA** | | 8:09 | 10.0 | 9.43 | 94.3 |
| **PFTrDA** | | 8:27 | 10.0 | 9.08 | 90.8 |
| **PFTeDA** | | 8:51 | 10.0 | 10.2 | 102 |
| **PFBS** | | 4:58 | 10.0 | 9.30 | 93.0 |
| **PFPeS** | | 5:29 | 10.0 | 10.4 | 104 |
| **PFHxS** | | 6:17 | 10.0 | 10.5 | 105 |
| **PFHpS** | | 7:09 | 10.0 | 9.06 | 90.6 |
| **PFOS** | | 7:39 | 10.0 | 9.41 | 94.1 |
| **PFNS** | | 7:58 | 10.0 | 9.53 | 95.3 |
| **PFDS** | | 8:15 | 10.0 | 9.50 | 95.0 |
| **PFDoS** | | 9:01 | 10.0 | 8.96 | 89.6 |
| **4:2 FTS** | | 4:53 | 40.0 | 40.1 | 100 |
| **6:2 FTS** | | 5:53 | 36.0 | 33.9 | 94.3 |
| **8:2 FTS** | | 7:23 | 40.0 | 36.7 | 91.8 |
| **PFOSA** | | 8:44 | 10.0 | 9.88 | 98.8 |
| **N-MeFOSA** | | 10:10 | 11.5 | 11.7 | 102 |
| **N-EtFOSA** | | 10:27 | 25.0 | 23.3 | 93.1 |
| **MeFOSAA** | | 7:37 | 10.0 | 10.6 | 106 |
| **EtFOSAA** | | 7:45 | 10.0 | 9.64 | 96.4 |
| **N-MeFOSE** | | 10:03 | 100 | 102 | 102 |
| **N-EtFOSE** | | 10:20 | 75.0 | 74.2 | 98.9 |
| **HFPO-DA** | | 5:09 | 40.0 | 35.8 | 89.4 |
| **ADONA** | | 5:41 | 40.0 | 41.5 | 104 |
| **9Cl-PF3ONS** | | 7:53 | 40.0 | 39.5 | 98.7 |
| **11Cl-PF3OUdS** | | 8:28 | 40.0 | 38.2 | 95.6 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S46__Form4A_SJ2756809.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 46 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:53:59 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.2 | 98.0 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 21.9 | 109 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.6 | 106 |
| **13C8-PFOA** | | 6:11 | 10.0 | 9.63 | 96.3 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.83 | 96.6 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.25 | 105 |
| **13C7-PFUnA** | | 7:53 | 5.00 | 4.75 | 95.1 |
| **13C2-PFDoA** | | 8:09 | 5.00 | 5.36 | 107 |
| **13C2-PFTeDA** | | 8:51 | 5.00 | 4.45 | 89.0 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.79 | 107 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 9.88 | 98.8 |
| **13C8-PFOS** | | 7:39 | 10.0 | 10.5 | 105 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 18.6 | 92.8 |
| **13C2-6:2 FTS** | | 5:54 | 20.0 | 19.4 | 96.9 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 21.6 | 108 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 9.77 | 97.7 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 9.77 | 97.7 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 9.80 | 98.0 |
| **D3-MeFOSAA** | | 7:37 | 20.0 | 19.3 | 96.5 |
| **D5-EtFOSAA** | | 7:45 | 20.0 | 19.0 | 95.0 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 98.7 | 98.7 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 97.3 | 97.3 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 42.1 | 105 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S46__Form4B_SJ2756809.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 59 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 23:43:09 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:53 | 40.0 | 39.0 | 97.6 |
| **PFPeA** | | 4:25 | 20.0 | 19.4 | 96.9 |
| **PFHxA** | | 5:00 | 10.0 | 9.53 | 95.3 |
| **PFHpA** | | 5:28 | 10.0 | 9.40 | 94.0 |
| **PFOA** | | 6:11 | 10.0 | 9.15 | 91.5 |
| **PFNA** | | 7:02 | 10.0 | 9.64 | 96.4 |
| **PFDA** | | 7:33 | 10.0 | 8.82 | 88.2 |
| **PFUnA** | | 7:53 | 10.0 | 9.67 | 96.7 |
| **PFDoA** | | 8:08 | 10.0 | 10.1 | 101 |
| **PFTrDA** | | 8:27 | 10.0 | 9.74 | 97.4 |
| **PFTeDA** | | 8:50 | 10.0 | 9.75 | 97.5 |
| **PFBS** | | 4:58 | 10.0 | 8.87 | 88.7 |
| **PFPeS** | | 5:29 | 10.0 | 9.94 | 99.4 |
| **PFHxS** | | 6:17 | 10.0 | 9.93 | 99.3 |
| **PFHpS** | | 7:09 | 10.0 | 10.0 | 100 |
| **PFOS** | | 7:38 | 10.0 | 9.97 | 99.7 |
| **PFNS** | | 7:58 | 10.0 | 8.78 | 87.8 |
| **PFDS** | | 8:14 | 10.0 | 10.2 | 102 |
| **PFDoS** | | 9:01 | 10.0 | 9.96 | 99.6 |
| **4:2 FTS** | | 4:53 | 40.0 | 40.4 | 101 |
| **6:2 FTS** | | 5:53 | 36.0 | 33.3 | 92.5 |
| **8:2 FTS** | | 7:23 | 40.0 | 36.9 | 92.3 |
| **PFOSA** | | 8:44 | 10.0 | 9.56 | 95.6 |
| **N-MeFOSA** | | 10:09 | 11.5 | 11.0 | 95.9 |
| **N-EtFOSA** | | 10:27 | 25.0 | 23.0 | 92.1 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.2 | 102 |
| **EtFOSAA** | | 7:45 | 10.0 | 9.47 | 94.7 |
| **N-MeFOSE** | | 10:02 | 100 | 101 | 101 |
| **N-EtFOSE** | | 10:20 | 75.0 | 75.3 | 100 |
| **HFPO-DA** | | 5:09 | 40.0 | 39.3 | 98.2 |
| **ADONA** | | 5:41 | 40.0 | 40.9 | 102 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 40.7 | 102 |
| **11Cl-PF3OUdS** | | 8:28 | 40.0 | 41.8 | 104 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S59__Form4A_SJ2756822.html; Workgroup: WG72595; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_203 S: 59 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 23-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 23:43:09 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:53 | 40.0 | 39.0 | 97.5 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 21.1 | 105 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.0 | 100 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.4 | 104 |
| **13C8-PFOA** | | 6:11 | 10.0 | 9.98 | 99.8 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.25 | 105 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.58 | 112 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.83 | 96.6 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.24 | 105 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.82 | 96.3 |
| **13C3-PFBS** | | 4:58 | 9.18 | 10.1 | 110 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.3 | 103 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 17.9 | 89.6 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 19.3 | 96.5 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 21.8 | 109 |
| **13C8-PFOSA** | | 8:44 | 10.0 | 10.5 | 105 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 10.6 | 106 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.7 | 107 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 20.0 | 100 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 19.5 | 97.7 |
| **d7-NMe-FOSE** | | 10:01 | 100 | 106 | 106 |
| **d9-NEt-FOSE** | | 10:19 | 100 | 105 | 105 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 39.3 | 98.2 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 14-Jul-2020 10:11:44; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_203S59__Form4B_SJ2756822.html; Workgroup: WG72595; Design ID: 3769 ]

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | Y | | | | | | | Y | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | Y | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | Y | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | | | | | Y | | | Y | Y | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | | Y | | Y | | | Y | Y | Y |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | | Y | | Y | | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

SGS AXYS

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# PERFLUORINATED ORGANIC (POST) ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG73018**

**Analysis WG72616**

## 28 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLE**

**TOTAL OXIDIZABLE PRECURSORS (TOP) ANALYSIS**
**SGS AXYS METHOD: MLA-111**

**4095:** L33071-1, -2
L33098-20

**Project Name: P1007/60608807**
**Work order number: 3000025335**

**28 July 2020**

## NARRATIVE

This narrative describes the analysis of three aqueous samples for the determination of total oxidizable precursors using Ultra high-Performance Liquid Chromatography tandem mass spectrometry (UPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 13th and 20th of May, 2020. The temperature of the samples upon receipt ranged from 3.3˚C to 9.5˚C, exceeding the method recommended arrival temperature of 0-4°C. The samples were stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE PREPARATION, EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG72616; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of a procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, and a duplicate OPR. The lab blank and OPR's were prepared using Canadian Springs water as the matrix.

The sample preparation, extraction and analysis procedures followed were in accordance with SGS AXYS Method MLA-111: ***Analytical Procedure for the Analysis of Total Oxidizable Precursors (TOP) in Aqueous and Solid Matrices by LC-MS/MS.*** A method summary (MSU-111) of SGS AXYS Method MLA-111 is included with this data package.

Approximately 0.06 L was accurately weighed and spiked with isotope labeled extraction standards, an isotope labeled oxidation monitoring standard, oxidized using base and heat activated persulfate. After cooling and pH adjustment the reaction mixture was spiked with isotope labeled quantification standards, extracted and cleaned up using weak anion exchange SPE cartridge. The cartridge was eluted using basic methanol and the resulting extract was then spiked with labeled recovery (internal) standards and analyzed using a UPLC reversed phase C18 column using a solvent gradient. The column was coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) mode with negative electrospray ionization.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L330XX-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix, and was combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair

The laboratory qualifiers used were as follows:

U = identifies a target analyte that was not detected

Results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The field and QC samples were carried intact throughout the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and cleanup.
- The Signal/Noise (S/N) ratios were measured as '0' for some compounds in the QC samples and sample data. This has been determined to be a limitation of the software and was deemed to not affect the data.
- Blank data should be evaluated against specifications using the same blank sample size as the size of the client samples.
- All CAL/VER, OPR and surrogate compound percent recovery specifications were met with the following exceptions:

The Relative Percent Difference (RPD) value of above 40% was observed for analyte PFHpS between the OPR and OPR duplicate (SGS AXYS ID: WG72616-102 and -103, respectively). Overall, there was good agreement in target analyte concentrations between the samples.

**ANALYTICAL DISCUSSION**

No analytical difficulty was encountered.

**DATA PACKAGE**

This data package has been assigned a unique identifier, DPWG73018 shown on the cover page. Included in this data package is the following documentation:

- Method Summary
- Sample 'Correlation Table'
- Sample Receiving Documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo

Signed: Bryan Alonzo, B. Sc., Data Validation Chemist

28-Jul-20

Date signed

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# SUMMARY OF SGS AXYS METHOD MLA-111 REV 02 VER 03

## ANALYTICAL PROCEDURE FOR THE ANALYSIS OF TOTAL OXIDIZABLE PRECURSORS (TOP) IN AQUEOUS AND SOLID MATRICES

This document describes a method for conversion of oxidizable polyfluroroalkyl substances (PFAS) into terminal perfluorinated carboxylic acids (PFCAs) through the use of persulfate oxidation and subsequent analysis of perfluorinated carboxylates ($C_4$-$C_{14}$) and sulfonates ($C_4$-$C_{10}$, $C_{12}$). Typically samples are analyzed pre- and post-oxidation and both data sets of results are reported. The increase in concentration of the terminal carboxylic acids following oxidation represents the precursor potential of the sample. These concentration increases represent the transformation of oxidizable PFAS into PFCAs. Alternatively, a sample is analyzed only post-oxidation and the concentration of perfluorinated acids reported represents the total (actual plus potential perfluorinated acids) concentrations.

This method is applicable for the analysis of solid samples, biosolid samples and aqueous samples including ground water, surface water and aqueous samples affected by aqueous film forming foams (AFFF) applications.

Following the oxidation reaction, samples are analyzed for the following suite of perfluorinated carboxylates and sulfonates:

### Target Analytes

| A. Perfluorinated carboxylates | B. Perfluorinated sulfonates |
|---|---|
| Perfluorobutanoate (PFBA) | Perfluorobutanesulfonate (PFBS) |
| Perfluoropentanoate (PFPeA) | Perfluoropentanesulfonate (PFPeS) |
| Perfluorohexanoate (PFHxA) | Perfluorohexanesulfonate (PFHxS) |
| Perfluoroheptanoate (PFHpA) | Perfluoroheptanesulfonate (PFHpS) |
| Perfluorooctanoate (PFOA) | Perfluorooctanesulfonate (PFOS) |
| Perfluorononanoate (PFNA) | Perfluorononanesulfonate (PFNS) |
| Perfluorodecanoate (PFDA) | Perfluorodecanesulfonate (PFDS) |
| Perfluoroundecanoate (PFUnA) | Perfluorododecanesulfonate (PFDoS) |
| Perfluorododecanoate (PFDoA) | |
| Perfluorotridecanoate (PFTrDA) | |
| Perfluorotetradecanoate (PFTeDA) | |

Target analytes are determined as the total of linear and branched isomers.

Method quality control is performed on an ongoing basis from oxidation of known precursor compounds spiked into a control matrix. The loss of the precursor compounds and the formation of the oxidation products are used to determine the ongoing performance of the method.

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Typical reporting limits for the default sample sizes of 50 mL aqueous samples and 0.5 g solid samples are provided below:

| Analyte groups | Reporting Limits Aqueous Samples (ng/L) | Reporting Limits Solid Samples (ng/g) |
|---|---|---|
| Perfluorinated carboxylates $C_4$-$C_{14}$ | 6-32 | 0.6-3.2 |
| Perfluorinated sulfonates $C_4$-$C_{10}$, $C_{12}$ | 8 | 0.8 |

## 1.0 OXIDATION, EXTRACTION AND CLEANUP PROCEDURES

Samples are analyzed in pairs of pre- and post-oxidation sample aliquots. Clients may choose to analyze only post-oxidation samples.

Pre-oxidation aqueous samples (up to 50 mL) are spiked with isotope labeled quantification standards, extracted and cleaned up using weak anion exchange solid phase extraction (SPE).

Post-oxidation aqueous samples (up to 50 mL) are spiked with isotope labeled extraction standards and an isotope labeled oxidation monitoring standard, and oxidized using base and heat activated persulfate. After cooling and pH adjustment the reaction mixture is spiked with isotope labeled quantification standards and extracted and cleaned up using weak anion exchange SPE.

Solid and biosolid samples (typically 0.5 g) are spiked with isotope labeled extraction standards and an isotope labeled reaction monitoring standard, and extracted by mixing and sonicating with methanolic ammonium hydroxide. The extract is treated with carbon and split into two equal portions, one for pre-oxidation analysis and the other for post-oxidation analysis. The pre-oxidation portion is spiked with isotope labeled quantification standards, extracted and cleaned up using weak anion exchange solid phase extraction (SPE). The post-oxidation portion is oxidized using base and heat activated persulfate. After cooling and pH adjustment the reaction mixture is spiked with isotope labeled quantification standards and extracted and cleaned up using weak anion exchange SPE.

## 2.0 INSTRUMENTATION

Analysis of the pre- and post-oxidation sample extracts are performed on a high performance or ultrahigh performance liquid chromatography reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) mode with negative electrospray ionization.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of six or more calibration solutions containing the analytes. A mid-level calibration standard is analyzed to verify the initial calibration and injected every 12 hours.

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## 4.0 QUANTIFICATION PROCEDURES

### Analyte Quantification

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the quantification ion to that of the $^{13}C$-labeled labeled standard and correcting for response factors. Linear quantification equations are determined from a multi-point calibration series with 1/X weighting fit and expressed as below:

$$Y = \text{slope} \times X + \text{intercept}$$

where: $$Y = \text{response ratio} = \left( \frac{\text{area of Target}}{\text{area of Surr}} \times \text{weight of Surr (ng)} \right)$$ , and

$X$ = weight of target (ng)

The slope and intercept are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Sample Conc.} = \left( \frac{\text{area of Target}}{\text{area of Surr}} \times \text{weight of Surr (ng)} - \text{intercept} \right) \times \left( \frac{1}{\text{slope}} \right) \times \left( \frac{1}{\text{sample size (L or g)}} \right)$$

where Surr is the surrogate standard

The recovery of the surrogate standards is calculated **(by internal standard quantification against the recovery standards using an average RRF)** and monitored as an indication of overall data quality. Final target concentrations are recovery corrected by this method of quantification. Surrogate standard recovery is calculated as:

$$\%\,\text{surrogate recovery} = \left( \frac{\text{area of Surr}}{\text{area of Rec}} \right) \times \left( \frac{\text{weight of Rec}}{\text{weight of Surr}} \right) \times \frac{100}{\text{RRF}_S}$$ , in the sample

*where* Rec = the recovery standard used, and

$$\text{RRF}_S = \left( \frac{\text{area of Surr}}{\text{area of Rec}} \right) \times \left( \frac{\text{weight of Rec}}{\text{weight of Surr}} \right)$$ ; from the calibration.

## 5.0 QUALITY ACCEPTANCE CRITERIA

All samples are analyzed in batches. A batch consists of both pre-oxidation and post-oxidation sample pairs. Clients may choose to analyze only post oxidation samples. Each batch has the following composition: One procedural blank and one Ongoing Precision and Recovery (OPR) quality control (QC) sample. An OPR is prepared by adding an aliquot of native standard containing model precursor compounds and terminal acids (containing $C_4$-$C_{14}$ carboxylates and $C_4$-$C_{11}$ and $C_{12}$ sulfonates) to a clean sample matrix. During the oxidation procedure the model precursors in the OPR react to form terminal perfluorinated acids. Recovery values of the perfluorinated acids spiked plus the predicted reaction products are determined to quantify recovery and used as indication of overall method performance; see the tables below for acceptance ranges. A duplicate client sample is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria tabulated below.

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## QC Specifications: Procedural Blank Levels and OPR Recovery Ranges (Pre- and Post-Oxidation)

| Compound | Procedural Blank Level (ng/sample) | Aqueous OPR Recovery Range [1] (%) | Solid OPR Recovery Range [1] (%) |
|---|---|---|---|
| PFBA | ≤ 1.6 | 50-150 | 50-150 |
| PFPeA | ≤ 0.8 | 50-150 | 50-150 |
| PFHxA | ≤ 0.4 | 50-150 | 50-150 |
| PFHpA | ≤ 0.4 | 50-150 | 50-150 |
| PFOA | ≤ 0.4 | 50-150 | 50-150 |
| PFNA | ≤ 0.4 | 50-150 | 50-150 |
| PFDA | ≤ 0.4 | 50-150 | 50-150 |
| PFUnA | ≤ 0.4 | 50-150 | 50-150 |
| PFDoA | ≤ 0.4 | 50-150 | 50-150 |
| PFTrDA | ≤ 0.4 | 50-150 | 50-150 |
| PFTeDA | ≤ 0.4 | 50-150 | 50-150 |
| PFBS | ≤ 0.4 | 70-130 | 50-150 |
| PFPeS | ≤ 0.4 | 60-140 | 50-150 |
| PFHxS | ≤ 0.4 | 70-130 | 50-150 |
| PFHpS | ≤ 0.4 | 60-140 | 50-150 |
| PFOS | ≤ 0.4 | 60-140 | 50-150 |
| PFNS | ≤ 0.4 | 60-140 | 50-150 |
| PFDS | ≤ 0.4 | 60-140 | 50-150 |
| PFDoS | ≤ 0.4 | 40-150 | 40-150 |

[1] Marginal exceedance allowance – results for one compound may fall outside of the above limits by a maximum of 10% of the value.

The efficiency of the oxidation is measured on a batch level using both recovery and extent of disappearance of the following compounds in the OPR. Sample-to-sample measures of oxidation include the extent of oxidation (disappearance of labeled $^{13}C_8$-PFOSA).

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### QC Specification for the Oxidation Protocol

| Compound | Post-oxidation Blank Level (ng/sample) | Post-oxidation OPR Recovery Criteria [1] (%) | Sample Recovery Criteria |
|---|---|---|---|
| 4:2 FTS | ≤ 0.4 | ≤ 5% | NA |
| 6:2 FTS | ≤ 0.4 | ≤ 5% | NA |
| 8:2 FTS | ≤ 0.4 | ≤ 5% | NA |
| FOSAA | ≤ 0.2 | ≤ 5% | NA |
| MeFOSAA | ≤ 0.2 | ≤ 5% | NA |
| EtFOSAA | ≤ 0.2 | ≤ 5% | NA |
| $^{13}C_8$-PFOSA | N/A | ≤ 5% | ≤ 5% |

[1] Model precursors and reaction monitoring surrogates are monitored for disappearance indicating completeness of reaction.

### QC Specifications: Surrogate Standard Recoveries, OPRs and Samples

| Quantification Standards | OPR and Client Sample Recovery Range [1] (%) |
|---|---|
| $^{13}C_3$-PFBA | 50-150 (aqueous samples)<br>30-150 (solid samples) |
| $^{13}C_5$-PFPeA | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 |
| $^{13}C_4$-PFOA | 50-150 |
| $^{13}C_9$-PFNA | 50-150 |
| $^{13}C_2$-PFDA | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 |
| $^{13}C_2$-PFDoA | 20-150 |
| $^{13}C_2$-PFTeDA | 20-150 |
| $^{13}C_3$-PFBS | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 |
| $^{13}C_8$-PFOS | 50-150 |
| **Extraction standards** | |
| $^{13}C_2$-PFHxA | 50-150 |
| $^{13}C_6$-PFDA | 50-150 |

[1] Lower recoveries may be accepted based on application and professional judgment.

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## QC Specifications: Other Parameters

| QC Parameter | Specification |
|---|---|
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for all analytes for lowest calibration standard. |
| Initial Calibration (native compounds) | Run initially, and as required to maintain calibration verification and instrument sensitivity.<br>(1/x) weighted linear fit, exclude origin.<br>Calculated conc. 70-130 % of actual $R^2 > 0.990$.<br>Surrogate recoveries must fall within 50-150%. |
| Continuing Calibration Verification (native compounds) | Every 12 hours, quantify against I-CAL.<br>Calculated conc. 70-130% of actual.<br>Surrogate recoveries must fall within 50-150%. |
| Instrumental Carryover and Instrument Background | Every Initial Calibration, Cal/Ver, or SPM: ≤ 0.3 % carryover and area response of analytes in instrument blank ≤ 800. |
| Duplicate Samples or MS/MSD | If conc. > 5 times R.L., RPD ≤ 40%<br>If conc. ≤ 5 times R.L., difference between pairs ≤ R.L. |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC (POST) ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-111** |
| **Work Order No.: 3000025335** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG73018** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72616-101 |
| OPR | WG72616-102 |
| OPR DUPLICATE | WG72616-103 |
| | |
| RC5-WAT-BULK-01-050420 | L33071-1 |
| EP16-WAT-BULK-01-051120 | L33071-2 |
| EP18-WAT-BULK-01-051220 | L33098-20 |

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SGS AXYS



# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Lararo
Phone: 612-376-2452
FAX:
E-mail: andrew.lararo@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007-18606187S3

Sampler's Name: Amanda Lannin
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MWA-110 | M25 | MSD | TOPA | TEQ B |
|---|---|---|---|---|---|---|---|---|---|---|
| RC5-WAT-BULK-01-050420 | W | 5/4/20 | 1155 | HDPE/8 | L33071-1 | X | | | X | |
| RC5-WAT-BULK-02-050420 | W | 5/4/20 | 1200 | HDPE/4 | L33068-39 | X | | | | |
| RC5-WAT-BULK-03-050420 | W | 5/4/20 | 1205 | HDPE/8 | -40 | X | X | X | | |
| RC18A-FOAM-OLD-01-050520 | Sludge | 5/5/20 | 1745 | HDPE/2 | L33069-2 | X | | | | |
| RC18A-FOAM-FRESH-01-050520 | W | 5/5/20 | 1800 | HDPE/1 | -3 | X | | | | |
| RC21-FOAM-01-042320 | W | 4/23/20 | 1020 | HDPE/2 | -4 | | | | | |
| EP21-FOAM-01-042320 | W | 4/23/20 | 1200 | HDPE/1 | -5 | | | | | |
| EP21-FOAM-01-050520 | W | 5/5/20 | 1435 | HDPE/1 | -6 | | | | | |
| EP21-FOAM-02-050520 | W | 5/5/20 | 1440 | HDPE/1 | -7 | | | | | |
| EP21-WATSML-01-042420 | W | 4/24/20 | 1515 | HDPE/1 | L33068-75 | | | | | |
| EP25-FOAM-01-051120 | W | 5/11/20 | 1245 | HDPE/2 | -8 | | | | | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature)
Date 13 MAY 2020 Time 10:25

Courier: FedEX
Waybill No.: 8125 4333 1157

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks
RC5-WAT-BULK-03-050420 = MS and MSD
RC18-FOAM-OLD-01-050520, high concentration; sludge - run both liquid & solids
RC18-FOAM-FRESH-01-050520, high concentration
RC21-FOAM-01-042320
EP21-FOAM-01-042320
EP21-FOAM-01-050520
EP21-FOAM-02-050520
EP25-FOAM-01-051120
suspected high concentrations

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SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| RC7-WAT-BULK-01-052020 | W | 5/8/20 | 0945 | HDPE/4 | L33068-69 | X | | | | |
| RC20-WAT-BULK-01-052020 | W | 5/8/20 | 1405 | HDPE/4 | -70 | X | | | | |
| EP8-WAT-BULK-01-052020 | W | 5/8/20 | 1310 | HDPE/4 | -71 | X | | | | |
| WL18-WAT-BULK-01-052020 | W | 5/8/20 | 1115 | HDPE/4 | -72 | X | | | | |
| EP16-WAT-BULK-01-05120 | W | 5/11/20 | 1400 | HDPE/8 | L33071-2 | X | | | | X |
| EP17-WAT-BULK-01-05120 | W | 5/11/20 | 1100 | HDPE/4 | -73 | X | | | | |
| EP25-WAT-BULK-01-05120 | W | 5/11/20 | 1230 | HDPE/4 | -74 | X | | | | |
| EQ-ALUGEK-01-05120 | W | 5/12/20 | 1330 | HDPE/2 | -13 | X | | | | |
| EQ-PALL-01-05120 | W | 5/12/20 | 1345 | HDPE/2 | -14 | X | | | | |
| ~~EQ-SAMPLE-01-05120~~ | ~~W~~ | ~~5/12/20~~ | ~~1315~~ | ~~HDPE/2~~ | | ~~X~~ | | | | |
| TripBlank | W | 5/12/20 | — | HDPE/1 | -7 | X | | | X | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlson
Date 13 May 2020 Time 10:25

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Courier: FedEx
Waybill No.: No waybill assigned

Sample Receipt: #137 declared value

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

*** indicates a required field**

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

| PROJECT/CLIENT INFO | | LABORATORY |
|---|---|---|
| Facility Code:* | SR0001491 | Program Code (MDH Lab Only): |
| Project Name:* | Project 1007 | Project Task Code:* PRJ08141 |
| Project Manager: | Andrew Tarara | |
| Potential Hazard? | If yes, add information to **Sampler Comments** field | |

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (dd/mm/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | Complete ONLY if Method is CT, CF, D-T, or D-F: End Date (mm/dd/yyyy) | Complete ONLY if Method is CT, CF, D-T, or D-F: End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. | MLA-110 | TOPA | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-189 | RC5-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1155 | | | | G | | | NW | | Wtr-Surf | | Includes TOPA Kit | 8 | | x | x | L33071-1 | 1 |
| S016-234 | EP16-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1400 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | x | L33071-2 | 2 |
| | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | | | | | | | 10 |

**Sampler's Name:*** Amanda Lanning **Phone#:** 612-268-9890

**Sampler's Signature:***

**Sampler's Organization:** AECOM

**Billing Organization:**

**Address:**

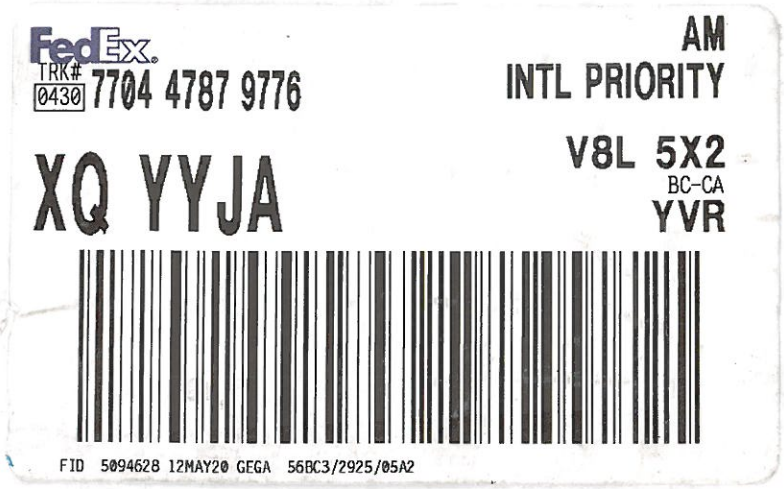
**Courier Name:**

**Receiving Comments:**

| Relinquished By/Affiliation | Date/Time | Accepted By/Affiliation | Date/Time |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

WB27466




10:25
5726
3.3
Bags wet
ice, melting

RECEIVED
MAY 13 2020

4095

W327474

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 57.90 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:
(CA)

FedEx Express

8 of 8
MPS# 0441 3927 8910 7125
Mstr# 3927 8910 7055
0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

1

RECEIVED
MAY 13 2020

10:25
Bags wet icey melting
5729
7.2°C

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

DPR 03-Jun-20

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: ~~392752798931~~ 392789107066
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27466

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-2, -39, -40, -75 L33069-2 to -9 L33071-1

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 3.3 Celcius bags wet ice, melting

Thermometer ID: 5726

Corrected Temperature: 3.3 Celcius

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107125
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27474

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDILLE Signature:

Axys Sample ID's: L33068-7, -13, -14, -69 to -74 L33071-2

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5729

Corrected Temperature: 7.2 Celcius

Temperature upon Receipt: 7.2 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 04, 2020*
*10:45 AM*

*Checked 04-Jun-20 DPR*

**Login Number:** L33071
**Account:** 4095 Minnesota Pollution Control
**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33071-1** | | 13-MAY-20 | | |
| | Storage: prescreens in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC5-WAT-BULK-01-050420<br>04-MAY-20 11:55 | S016-189<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| EDataDeliv | FC111 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Data Package | FC111 DPKG | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| Aqueous | FC111.POSTOX | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33071-2** | | 13-MAY-20 | | |
| | Storage: prescreens in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP16-WAT-BULK-01-051120<br>11-MAY-20 14:00 | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| EDataDeliv | FC111 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Data Package | FC111 DPKG | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| Aqueous | FC111.POSTOX | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |

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4085
15 May 2020
RTG/JTC

WB27465

L33068-1, -15 to -23

WB27466

L33068-2, -40, -39, -75

L33069-2 to -9

L33071-1, ~~-2~~ RTG

WB27470

L33068-3, 52, 49, 50, 52, 55, 53, 51, 57, 56, 54.

WB27471

L33068-4, -9 to -12,

-32 to -36, ~~-37, -38~~

4095
15MAY2020
RTG/ JTC

WB27472

L33068-~~X~~

RTG 15MAY2020

L33068-5
392789107077
4095
Not Received

1/1

WB27473

L33068-6, 47, 45, 46, 44, 42, 41, 48, 43
(-41 to -48)

WB27474

L33068-7, 13, 14, -69 to -72, -73, -74

L33068-58, 60, 61, 68, 62, 59, 66, 64, 65, 67, 63
(-58 to -68)

L33071-2

WB27475

L33068-8, -24 to -31
L33069-1

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | INVOICE TO: |
|---|---|
| Company: AECOM | Company: AECOM |
| Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402 | Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402 |
| Contact: Andrew Tarara | Contact: Andrew Tarara |
| Phone: 612-376-2452 | Phone: 612-376-2452 |
| FAX: | FAX: |
| E-mail: andrew.tarara@aecom.com | E-mail: andrew.tarara@aecom.com |

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOPA |
|---|---|---|---|---|---|---|---|---|---|---|
| EP9-WAT-BULK-01-051220 | W | 5/12/20 | 1410 | HDPE/4 | L33098-3 | X | | | | |
| EP15-WAT-BULK-01-051220 | W | 5/12/20 | 1330 | HDPE/4 | -4 | X | | | | |
| EP18-WAT-BULK-01_051220 | W | 5/12/20 | 1145 | HDPE/8 | -20 | X | | | | X |
| EP18-SED-0-6-01-051220 | S | 5/12/20 | 1130 | HDPE/1 | -8 KTG Completed L33094-1 | X | | | | |
| GL1-WAT-BULK-01-051220 | W | 5/12/20 | 1015 | HDPE/4 | -5 | X | | | | |
| GL1-SED-0-6-01-051220 | S | 5/12/20 | 1000 | HDPE/1 | -2 | X | | | | |
| RC22-WAT-BULK-01-051420 | W | 5/14/20 | 0950 | HDPE/4 | -6 | X | | | | |
| RC22-SED-WET-0-6-01-051420 | S | 5/14/20 | 1015 | HDPE/1 | -3 | X | | | | |
| RC22-SED-WET-6-12-01-051420 | S | 5/14/20 | 1020 | HDPE/1 | -4 | X | | | | |
| RC23-WAT-BULK-01-051420 | W | 5/14/20 | 1110 | HDPE/4 | -7 | X | | | | |
| RC23-SED-WET-0-6-01-051420 | S | 5/14/20 | 1120 | HDPE/1 | -5 | X | | | | |

| | | | |
|---|---|---|---|
| Relinquished by (Signature) | Date: 5/19/20 | Time: 1200 | Received by (Signature): Jennifer Carlson |
| Relinquished by (Signature) | Date: | Time: | Received by (Signature): |

Date: 20 May 2020 Time: 10:35

Courier: FedEx

Waybill No.: No waybill - declared value = $175

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks

www.axysanalytical.com



SGS AXYS

# CHAIN OF CUSTODY

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

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Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC23-SED-WET-G12-01-051420 | S | 5/14/20 | 1130 | HDPE/1 | L33094-6 | X | | | |
| TRIP BLANK | W | 5/14/20 | - | HDPE/1 | L33098-1 | X | | | X |
| WL16-WAT-BULK-01-051820 | W | 5/18/20 | 1610 | HDPE/4 | -8 | X | | | |
| WL15-WAT-BULK-01-051820 | W | 5/18/20 | 1640 | HDPE/4 | -9 | X | | | |
| YB3-WAT-BULK-01-051820 | W | 5/18/20 | 1715 | HDPE/4 | -10 | X | | | |

Relinquished by (Signature) Date 5/19/20 Time 1200
Received by (Signature) Jennifer Carlson
Date 20 May 2020 Time 10:35
Courier: FedEx
Waybill No.: No waybill - declared value = $175

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time
Sample Receipt

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

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Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
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E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-051820 | W | 5/18/20 | 1810 | HDPE/4 | L33098-11 | X | | | |
| RC7-WAT-BULK-01-051820 | W | 5/18/20 | 1200 | HDPE/4 | -12 | X | | | |
| RC20-WAT-BULK-01-051820 | W | 5/18/20 | 1130 | HDPE/4 | -13 | X | | | |
| RC12-WAT-BULK-01-051820 | W | 5/18/20 | 1050 | HDPE/4 | -14 | X | | | |
| RC14-WAT-BULK-01-051820 | | 5/18/20 | 1015 | HDPE/4 | -15 | X | | | |
| RC21-WAT-BULK-01-051820 | | 5/19/20 | 1000 | HDPE/4 | -16 | X | | | |
| EP19-WAT-BULK-01-051820 | | 5/18/20 | 1450 | HDPE/4 | -17 | X | | | |
| EP20-WAT-BULK-01-051820 | | 5/18/20 | 1400 | HDPE/4 | -18 | X | | | |
| EP16-WAT-BULK-01-051820 | | 5/18/20 | 1545 | HDPE/4 | -19 | X | | | |
| TRIP BLANK | ↓ | 5/19/20 | — | HDPE/1 | -2 | X | | | X |

Relinquished by (Signature) Date 5/19/20 Time 1200
Received by (Signature) Jennifer Carlsen Date 20 May 2020 Time 10:35
Courier: FedEX
Waybill No.: 8149 0905 3731

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

* indicates a required field

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

FOR LAB USE ONLY

Lab Work Order Sticker

**PROJECT/CLIENT INFO**

Facility Code:* SR0001491

Program Code (MDH Lab Only):

Project Name:* Project 1007

Project Task Code:* PRJ08141

Project Manager: Andrew Tarara

Potential Hazard? If yes, add information to **Sampler Comments** field

**LABORATORY**

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**ANALYSIS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (mm/dd/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | End Date (mm/dd/yyyy) (Complete ONLY if Method is CT, CF, D-T, or D-F) | End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. / ANALYSIS* | FF | MLA-110 | TOPA | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIELDQC | 393004067424 | QC-TB | 19/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | X | | L33098-1 | 1 |
| FIELDQC | 393004067435 | QC-TB | 14/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | X | | L33098-2 | 2 |
| 82-0106-00-207 | EP9-WAT-BULK-01-051220 | Sample | 12/05/2020 | 14:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-3 | 3 |
| 82-0106-00-209 | EP15-WAT-BULK-01-051220 | Sample | 12/05/2020 | 13:30 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-4 | 4 |
| 82-0113-00-201 | GL1-WAT-BULK-01-051220 | Sample | 12/05/2020 | 10:15 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-5 | 5 |
| PS00175 | RC22-WAT-BULK-01-051420 | Sample | 14/05/2020 | 09:50 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-6 | 6 |
| PS00176 | RC23-WAT-BULK-01-051420 | Sample | 14/05/2020 | 11:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-7 | 7 |
| S016-071 | WL6-WAT-BULK-01-051820 | Sample | 18/05/2020 | 16:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-8 | 8 |
| PS00171 | WL15-WAT-BULK-01-051820 | Sample | 18/05/2020 | 16:40 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-9 | 9 |
| S016-316 | VB3-WAT-BULK-01-051820 | Sample | 18/05/2020 | 17:15 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-10 | 10 |
| S016-051 | RC3-WAT-BULK-01-051820 | Sample | 18/05/2020 | 18:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-11 | 11 |
| S016-053 | RC7-WAT-BULK-01-051820 | Sample | 18/05/2020 | 12:00 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-12 | 12 |
| S016-276 | RC20-WAT-BULK-01-051820 | Sample | 18/05/2020 | 11:30 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-13 | 13 |
| S016-060 | RC12-WAT-BULK-01-051820 | Sample | 18/05/2020 | 10:50 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-14 | 14 |
| S016-063 | RC14-WAT-BULK-01-051820 | Sample | 18/05/2020 | 10:15 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-15 | 15 |
| S016-280 | RC21-WAT-BULK-01-051820 | Sample | 18/05/2020 | 10:00 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-16 | 16 |
| 82-0109-00-453 | EP19-WAT-BULK-01-051820 | Sample | 18/05/2020 | 14:50 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-17 | 17 |
| 82-0109-00-454 | EP20-WAT-BULK-01-051820 | Sample | 18/05/2020 | 14:00 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-18 | 18 |
| S016-234 | EP16-WAT-BULK-01-051820 | Sample | 18/05/2020 | 15:45 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-19 | 19 |
| 82-0109-00-455 | EP18-WAT-BULK-01-051220 | Sample | 12/05/2020 | 11:45 | | | | G | | | NW | | Wtr-Surf | | | 8 | | | X | X | L33098-20 | 20 |

**Sampler's Name:*** Amanda Lanning **Phone#:** 612-268-9890

**Sampler's Signature:***

**Sampler's Organization:** AECOM

**Billing Organization:**

**Address:**

**Courier Name:**

**Receiving Comments:**

| Relinquished By/Affiliation | Date/Time | Accepted By/Affiliation | Date/Time |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

ORIGIN ID:SYNA (612) 376-2452
Amanda Canning
AECOM
800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 19MAY20
TOTWGT: 121.00 LB
CAD: 6990377/SSF02110

DIMS: 24x14x14 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 REV EXP 12/20

TO **Attn: Sample and Receiving**
**SGS AXYS ANALYTICAL**
**2045 Mills Rd W**

**Sidney, BC V8L5X2**

**CANADA, CA**

(250) 655-5831

**FedEx** Express

**(CA)**

**AWB**

**E**

J201120042420uv

**XQ YYJA**
**NSR AHS**
**PKG:YOUR PKG**

TRK# **3930 0406 7424**
**1 of 2**

Form
0430

**AM**
**INTL PRIORITY**

REF:
DESC1:SAMPLES - Water and Soil Samples in plastic bottles
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 306.00 USD
CUSTOMS VALUE: 306.00 USD

SIGN: Amanda Canning
T/C: 0 141083937
D/T: R

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:35

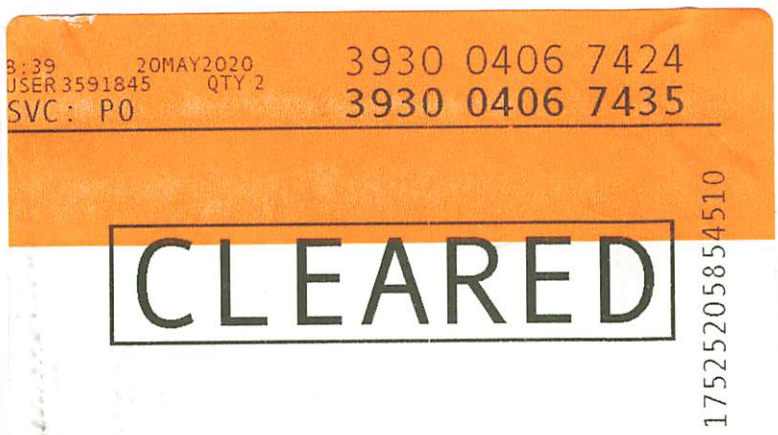
RECEIVED
MAY 20 2020
Jennifer Carlsen

9.4°C
5712
bagged wet ice melting

WB27492

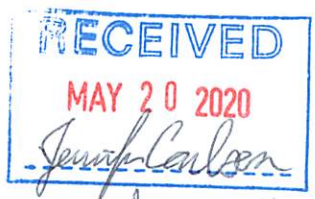
www.axysanalytical.com

4095




WB27493

10:35




bagged wet ice
melting
9.8°C
5740

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 19-MAY-20

Waybill #: 393004067424
Date /Time Received: 20-MAY-20 10:35
Receipt No: WB27492

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDUE

Signature:

Axys Sample ID's: L33098-1, -11 to -19

Matrix Type: aq

Thermometer ID: 5712

Condition of Shipping Container: intact

Corrected Temperature: 9.3 Celcius

Temperature upon Receipt: 9.4 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 19-MAY-20

Waybill #: 393004067435
Date /Time Received: 20-MAY-20 10:35
Receipt No: WB27493

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENOVE Signature:

Axys Sample ID's: L33094-1 to -6 L33098-2 to -10, -20

Matrix Type: S/aq

Thermometer ID: 5740

Condition of Shipping Container: intact

Corrected Temperature: 9.5 Celcius

Temperature upon Receipt: 9.8 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

*Checked 08-Jun-20 DPR*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33098-1** | | 20-MAY-20 | | |
| | Storage: WIF-4, COOLER BY 11 | | | |
| 393004067424 | FIELDQC | | | |
| 14-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33098-2** | | 20-MAY-20 | | |
| | Storage: WIF-4, COOLER BY 11 | | | |
| 393004067435 | FIELDQC | | | |
| 19-MAY-20 00:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | USD |
| **L33098-3** | | 20-MAY-20 | | |
| | Storage: WIF-4, COOLER BY 11 | | | |
| EP9-WAT-BULK-01-051220 | 82-0106-00-207 | | | |
| 12-MAY-20 14:10 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-4** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| EP15-WAT-BULK-01-051220<br>12-MAY-20 13:30 | | 82-0106-00-209<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-5** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| GL1-WAT-BULK-01-051220<br>12-MAY-20 10:15 | | 82-0113-00-201<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-6** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC22-WAT-BULK-01-051420<br>14-MAY-20 09:50 | | PS00175<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-7** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC23-WAT-BULK-01-051420<br>14-MAY-20 11:10 | | PS00176<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-8** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| WL6-WAT-BULK-01-051820<br>18-MAY-20 16:10 | | S016-071<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-9** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| WL15-WAT-BULK-01-051820<br>18-MAY-20 16:40 | | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-10** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| VB3-WAT-BULK-01-051820<br>18-MAY-20 17:15 | | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-11** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC3-WAT-BULK-01-051820<br>18-MAY-20 18:10 | | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-12** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC7-WAT-BULK-01-051820<br>18-MAY-20 12:00 | | S016-053<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-13** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC20-WAT-BULK-01-051820<br>18-MAY-20 11:30 | | S016-276<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-14** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC12-WAT-BULK-01-051820<br>18-MAY-20 10:50 | | S016-060<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-15** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC14-WAT-BULK-01-051820<br>18-MAY-20 10:15 | | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-16** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC21-WAT-BULK-01-051820<br>18-MAY-20 10:00 | | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-17** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| EP19-WAT-BULK-01-051820<br>18-MAY-20 14:50 | | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-18** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| EP20-WAT-BULK-01-051820<br>18-MAY-20 14:00 | | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33098-19** | | 20-MAY-20 | | |
| | Storage: WIF-4, COOLER BY 11 | | | |
| EP16-WAT-BULK-01-051820<br>18-MAY-20 15:45 | S016-234<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33098-20** | | 20-MAY-20 | | |
| | Storage: WIF-4, COOLER BY 11 | | | |
| EP18-WAT-BULK-01-051220<br>12-MAY-20 14:10 | 82-0109-00-455<br>Project #: TIM LOCKREM 2019 | | | |
| Comments: Also for FC111 TOP A | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| EDataDeliv | FC111 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Data Package | FC111 DPKG | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| Aqueous | FC111.POSTOX | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |

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WB27492

L33098-1, -11 to -19

WB27493

L33098-2 to -10, -20

L33094-1 to -6

Processed by:
RTG/JTC

20 MAY 2020

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 1A**

**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 11:55**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33071-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0600 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:21:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 31** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 841 | 26.7 (L) | 2:10 |
| **PFPeA** | | 123 | 13.3 (L) | 4:35 |
| **PFHxA** | | 222 | 6.66 (L) | 5:14 |
| **PFHpA** | | 219 | 6.66 (L) | 5:50 |
| **PFOA** | | 1520 | 6.66 (L) | 6:41 |
| **PFNA** | | 9.55 | 5.66 (L) | 7:27 |
| **PFDA** | | 8.05 | 5.33 (L) | 7:53 |
| **PFUnA** | U | | 5.33 (L) | |
| **PFDoA** | U | | 5.33 (L) | |
| **PFTrDA** | U | | 5.33 (L) | |
| **PFTeDA** | U | | 5.33 (L) | |
| **PFBS** | | 59.7 | 6.66 (L) | 5:11 |
| **PFPeS** | | 73.0 | 6.66 (L) | 5:51 |
| **PFHxS** | | 176 | 6.66 (L) | 6:47 |
| **PFHpS** | | 38.4 | 6.66 (L) | 7:33 |
| **PFOS** | | 2700 | 6.66 (L) | 7:58 |
| **PFNS** | U | | 6.66 (L) | |
| **PFDS** | U | | 6.66 (L) | |
| **PFDoS** | U | | 6.66 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_L33071-1_Form1A_FC0X_063S31_SJ2762505.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**CLIENT SAMPLE NO.**
**RC5-WAT-BULK-01-050420**
**Sample Collection:**
**04-May-2020 11:55**

**Form 2**

**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33071-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0600 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:21:48 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 31** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 40.0 | 40.0 | 99.9 | 2:10 |
| **13C5-PFPeA** | | 20.0 | 26.7 | 134 | 4:35 |
| **13C5-PFHxA** | | 10.0 | 10.7 | 107 | 5:14 |
| **13C4-PFHpA** | | 10.0 | 10.7 | 107 | 5:49 |
| **13C4-PFOA** | | 10.0 | 10.5 | 105 | 6:41 |
| **13C9-PFNA** | | 2.00 | 2.38 | 119 | 7:27 |
| **13C2-PFDA** | | 2.00 | 1.96 | 98.2 | 7:53 |
| **13C7-PFUnA** | | 2.00 | 1.99 | 99.6 | 8:11 |
| **13C2-PFDoA** | | 2.00 | 1.74 | 87.0 | 8:31 |
| **13C2-PFTeDA** | | 2.00 | 1.95 | 97.5 | 9:19 |
| **13C3-PFBS** | | 9.30 | 11.1 | 119 | 5:11 |
| **13C3-PFHxS** | | 9.46 | 9.49 | 100 | 6:47 |
| **13C8-PFOS** | | 9.30 | 9.61 | 103 | 7:58 |

| | LAB FLAG [1] | SPIKE CONC. (ng/L) | CONC. FOUND (ng/L) | REPORTING LIMIT (RL)[3] (ng/L) | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|---|
| **EXTRACTION STANDARD** | | | | | | |
| **13C8-PFOSA** [4] | | 401 | 3.03 | 0.442 (S) | 0.8 | 8:53 |
| **13C2-PFHxA** | | 418 | 423 | 0.689 (S) | 101 | 5:14 |
| **13C6-PFDA** | | 167 | 187 | 0.135 (S) | 112 | 7:53 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.
(3) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
(4) Reaction monitoring standard, disappearance indicates the completeness of the oxidation of precursors, maximum %recovery is 5%.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_L33071-1_Form2_FC0X_063S31_SJ2762505.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 1A**

**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 14:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33071-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0610 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:34:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 32** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 488 | 26.2 (L) | 2:11 |
| **PFPeA** | | 15.9 | 13.1 (L) | 4:35 |
| **PFHxA** | | 18.3 | 6.56 (L) | 5:13 |
| **PFHpA** | | 8.91 | 6.56 (L) | 5:49 |
| **PFOA** | | 80.9 | 6.56 (L) | 6:41 |
| **PFNA** | U | | 5.57 (L) | |
| **PFDA** | U | | 5.25 (L) | |
| **PFUnA** | U | | 5.25 (L) | |
| **PFDoA** | U | | 5.25 (L) | |
| **PFTrDA** | U | | 5.25 (L) | |
| **PFTeDA** | U | | 5.25 (L) | |
| **PFBS** | U | | 6.56 (L) | |
| **PFPeS** | U | | 6.56 (L) | |
| **PFHxS** | | 8.42 | 6.56 (L) | 6:46 |
| **PFHpS** | U | | 6.56 (L) | |
| **PFOS** | | 142 | 6.56 (L) | 7:58 |
| **PFNS** | U | | 6.56 (L) | |
| **PFDS** | U | | 6.56 (L) | |
| **PFDoS** | U | | 6.56 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_POSTTOP_L33071-2_Form1A_FC0X_063S32_SJ2762506.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-051120**
**Sample Collection:**
**11-May-2020 14:00**

**Form 2**

**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33071-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0610 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:34:52 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 32** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 40.0 | 32.1 | 80.2 | 2:11 |
| **13C5-PFPeA** | | 20.0 | 26.2 | 131 | 4:35 |
| **13C5-PFHxA** | | 10.0 | 10.1 | 101 | 5:13 |
| **13C4-PFHpA** | | 10.0 | 11.1 | 111 | 5:49 |
| **13C4-PFOA** | | 10.0 | 10.4 | 104 | 6:41 |
| **13C9-PFNA** | | 2.00 | 2.19 | 109 | 7:27 |
| **13C2-PFDA** | | 2.00 | 2.02 | 101 | 7:53 |
| **13C7-PFUnA** | | 2.00 | 1.91 | 95.6 | 8:11 |
| **13C2-PFDoA** | | 2.00 | 1.71 | 85.4 | 8:31 |
| **13C2-PFTeDA** | | 2.00 | 1.88 | 94.0 | 9:19 |
| **13C3-PFBS** | | 9.30 | 11.4 | 123 | 5:10 |
| **13C3-PFHxS** | | 9.46 | 10.3 | 109 | 6:47 |
| **13C8-PFOS** | | 9.30 | 9.69 | 104 | 7:58 |

| | LAB FLAG [1] | SPIKE CONC. (ng/L) | CONC. FOUND (ng/L) | REPORTING LIMIT (RL)[3] (ng/L) | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|---|
| **EXTRACTION STANDARD** | | | | | | |
| **13C8-PFOSA** [4] | | 394 | 1.02 | 0.231 (S) | 0.3 | 8:53 |
| **13C2-PFHxA** | | 410 | 376 | 0.0525 (S) | 91.7 | 5:13 |
| **13C6-PFDA** | | 164 | 174 | 0.152 (S) | 106 | 7:53 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.
(3) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
(4) Reaction monitoring standard, disappearance indicates the completeness of the oxidation of precursors, maximum %recovery is 5%.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_L33071-2_Form2_FC0X_063S32_SJ2762506.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**CLIENT SAMPLE NO.**
**EP18-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 14:10**

**Form 1A**

**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-20 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0609 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:47:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 33** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 107 | 26.3 (L) | 2:11 |
| **PFPeA** | U | | 13.1 (L) | |
| **PFHxA** | | 15.5 | 6.57 (L) | 5:13 |
| **PFHpA** | | 15.2 | 6.57 (L) | 5:49 |
| **PFOA** | | 105 | 6.57 (L) | 6:41 |
| **PFNA** | U | | 5.58 (L) | |
| **PFDA** | U | | 5.26 (L) | |
| **PFUnA** | U | | 5.26 (L) | |
| **PFDoA** | U | | 5.26 (L) | |
| **PFTrDA** | U | | 5.26 (L) | |
| **PFTeDA** | U | | 5.26 (L) | |
| **PFBS** | U | | 6.57 (L) | |
| **PFPeS** | U | | 6.57 (L) | |
| **PFHxS** | | 12.9 | 6.57 (L) | 6:46 |
| **PFHpS** | U | | 6.57 (L) | |
| **PFOS** | | 273 | 6.57 (L) | 7:58 |
| **PFNS** | U | | 6.57 (L) | |
| **PFDS** | U | | 6.57 (L) | |
| **PFDoS** | U | | 6.57 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_L33098-20_Form1A_FC0X_063S33_SJ2762507.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**CLIENT SAMPLE NO.**
**EP18-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 14:10**

**Form 2**

**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-20 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0609 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:47:56 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 33** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 40.0 | 36.5 | 91.2 | 2:10 |
| **13C5-PFPeA** | | 20.0 | 22.8 | 114 | 4:34 |
| **13C5-PFHxA** | | 10.0 | 8.86 | 88.6 | 5:13 |
| **13C4-PFHpA** | | 10.0 | 11.4 | 114 | 5:49 |
| **13C4-PFOA** | | 10.0 | 10.5 | 105 | 6:41 |
| **13C9-PFNA** | | 2.00 | 1.65 | 82.3 | 7:26 |
| **13C2-PFDA** | | 2.00 | 1.87 | 93.6 | 7:53 |
| **13C7-PFUnA** | | 2.00 | 1.67 | 83.4 | 8:11 |
| **13C2-PFDoA** | | 2.00 | 1.40 | 69.9 | 8:31 |
| **13C2-PFTeDA** | | 2.00 | 1.56 | 77.8 | 9:20 |
| **13C3-PFBS** | | 9.30 | 11.1 | 119 | 5:10 |
| **13C3-PFHxS** | | 9.46 | 10.0 | 106 | 6:46 |
| **13C8-PFOS** | | 9.30 | 9.13 | 98.2 | 7:58 |

| | LAB FLAG [1] | SPIKE CONC. (ng/L) | CONC. FOUND (ng/L) | REPORTING LIMIT (RL)[3] (ng/L) | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|---|
| **EXTRACTION STANDARD** | | | | | | |
| **13C8-PFOSA** [4] | | 394 | 1.39 | 0.119 (S) | 0.4 | 8:54 |
| **13C2-PFHxA** | | 410 | 401 | 0.0537 (S) | 97.9 | 5:13 |
| **13C6-PFDA** | | 164 | 172 | 0.0444 (S) | 105 | 7:53 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.
(3) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
(4) Reaction monitoring standard, disappearance indicates the completeness of the oxidation of precursors, maximum %recovery is 5%.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_L33098-20_Form2_FC0X_063S33_SJ2762507.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 1A**

**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72616-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0600 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:08:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 30** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 26.7 (L) | |
| **PFPeA** | U | | 13.3 (L) | |
| **PFHxA** | U | | 6.67 (L) | |
| **PFHpA** | U | | 6.67 (L) | |
| **PFOA** | U | | 6.67 (L) | |
| **PFNA** | U | | 5.67 (L) | |
| **PFDA** | U | | 5.33 (L) | |
| **PFUnA** | U | | 5.33 (L) | |
| **PFDoA** | U | | 5.33 (L) | |
| **PFTrDA** | U | | 5.33 (L) | |
| **PFTeDA** | U | | 5.33 (L) | |
| **PFBS** | U | | 6.67 (L) | |
| **PFPeS** | U | | 6.67 (L) | |
| **PFHxS** | U | | 6.67 (L) | |
| **PFHpS** | U | | 6.67 (L) | |
| **PFOS** | U | | 6.67 (L) | |
| **PFNS** | U | | 6.67 (L) | |
| **PFDS** | U | | 6.67 (L) | |
| **PFDoS** | U | | 6.67 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_POSTTOP_WG72616-101_Form1A_FC0X_063S30_SJ2762503.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**
**TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72616-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0600 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 23:08:44 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0X_063 S: 30** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 40.0 | 38.2 | 95.4 | 2:10 |
| **13C5-PFPeA** | | 20.0 | 23.8 | 119 | 4:35 |
| **13C5-PFHxA** | | 10.0 | 9.55 | 95.5 | 5:14 |
| **13C4-PFHpA** | | 10.0 | 10.0 | 100 | 5:50 |
| **13C4-PFOA** | | 10.0 | 10.1 | 101 | 6:41 |
| **13C9-PFNA** | | 2.00 | 2.03 | 102 | 7:27 |
| **13C2-PFDA** | | 2.00 | 1.76 | 88.2 | 7:53 |
| **13C7-PFUnA** | | 2.00 | 1.84 | 91.9 | 8:11 |
| **13C2-PFDoA** | | 2.00 | 1.49 | 74.5 | 8:31 |
| **13C2-PFTeDA** | | 2.00 | 1.64 | 82.2 | 9:19 |
| **13C3-PFBS** | | 9.30 | 10.2 | 109 | 5:11 |
| **13C3-PFHxS** | | 9.46 | 8.90 | 94.1 | 6:47 |
| **13C8-PFOS** | | 9.30 | 8.46 | 91.0 | 7:58 |

| | LAB FLAG [1] | SPIKE CONC. (ng/L) | CONC. FOUND (ng/L) | REPORTING LIMIT (RL)[3] (ng/L) | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|---|
| **EXTRACTION STANDARD** | | | | | | |
| **13C8-PFOSA** [4] | | 401 | 3.00 | 0.136 (S) | 0.7 | 8:54 |
| **13C2-PFHxA** | | 418 | 348 | 0.0251 (S) | 83.4 | 5:14 |
| **13C6-PFDA** | | 167 | 160 | 0.0755 (S) | 95.5 | 7:53 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.
(3) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
(4) Reaction monitoring standard, disappearance indicates the completeness of the oxidation of precursors, maximum %recovery is 5%.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

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Report Filename: PFC_FC_LC_PFAS_POSTTOP_WG72616-101_Form2_FC0X_063S30_SJ2762503.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72616-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:16:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0X_063 S: 26** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 66.5 | 65.3 | 98.1 | 2:10 |
| **PFPeA** | | 45.0 | 41.5 | 92.2 | 4:35 |
| **PFHxA** | | 39.0 | 33.7 | 86.5 | 5:14 |
| **PFHpA** | | 34.2 | 37.0 | 108 | 5:50 |
| **PFOA** | | 139 | 157 | 113 | 6:41 |
| **PFNA** | | 16.1 | 12.7 | 78.9 | 7:27 |
| **PFDA** | | 7.97 | 9.34 | 117 | 7:53 |
| **PFUnA** | | 7.92 | 8.60 | 109 | 8:11 |
| **PFDoA** | | 8.09 | 9.39 | 116 | 8:31 |
| **PFTrDA** | | 7.98 | 8.32 | 104 | 8:54 |
| **PFTeDA** | | 7.92 | 7.91 | 99.9 | 9:20 |
| **PFBS** | | 9.88 | 10.7 | 108 | 5:11 |
| **PFPeS** | | 10.1 | 10.7 | 106 | 5:51 |
| **PFHxS** | | 10.0 | 9.93 | 99.2 | 6:46 |
| **PFHpS** | | 10.0 | 9.02 | 90.3 | 7:32 |
| **PFOS** | | 10.6 | 9.40 | 88.9 | 7:58 |
| **PFNS** | | 10.1 | 9.57 | 95.0 | 8:17 |
| **PFDS** | | 10.0 | 9.41 | 93.9 | 8:39 |
| **PFDoS** | | 9.92 | 7.73 | 77.9 | 9:28 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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**SGS AXYS METHOD MLA-111 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72616-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:16:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0X_063 S: 26** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 40.0 | 36.6 | 91.6 | 2:10 |
| **13C5-PFPeA** | | 20.0 | 23.0 | 115 | 4:35 |
| **13C5-PFHxA** | | 10.0 | 9.42 | 94.2 | 5:14 |
| **13C4-PFHpA** | | 10.0 | 10.2 | 102 | 5:49 |
| **13C4-PFOA** | | 10.0 | 9.79 | 97.9 | 6:41 |
| **13C9-PFNA** | | 2.00 | 1.72 | 86.1 | 7:27 |
| **13C2-PFDA** | | 2.00 | 1.85 | 92.3 | 7:53 |
| **13C7-PFUnA** | | 2.00 | 1.94 | 96.8 | 8:11 |
| **13C2-PFDoA** | | 2.00 | 1.52 | 75.8 | 8:31 |
| **13C2-PFTeDA** | | 2.00 | 1.69 | 84.3 | 9:19 |
| **13C3-PFBS** | | 9.30 | 10.9 | 117 | 5:11 |
| **13C3-PFHxS** | | 9.46 | 9.53 | 101 | 6:47 |
| **13C8-PFOS** | | 9.30 | 9.24 | 99.3 | 7:58 |
| **EXTRACTION STANDARD** | | | | | |
| **13C8-PFOSA** [2] | | 24.0 | 0.309 | 1.3 | 8:53 |
| **13C2-PFHxA** | | 25.0 | 23.0 | 92.1 | 5:14 |
| **13C6-PFDA** | | 10.0 | 10.4 | 104 | 7:53 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reaction monitoring standard, disappearance indicates the completeness of the oxidation of precursors, maximum %recovery is 5%.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_WG72616-102_Form8B_SJ2762497.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72616-103 (DUP WG72616-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:29:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0X_063 S: 27** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 66.5 | 63.9 | 96.0 | 2:12 |
| **PFPeA** | | 45.0 | 41.4 | 92.0 | 4:35 |
| **PFHxA** | | 39.0 | 33.7 | 86.6 | 5:14 |
| **PFHpA** | | 34.2 | 37.0 | 108 | 5:50 |
| **PFOA** | | 139 | 154 | 111 | 6:42 |
| **PFNA** | | 16.1 | 10.8 | 67.3 | 7:28 |
| **PFDA** | | 7.97 | 10.3 | 129 | 7:54 |
| **PFUnA** | | 7.92 | 8.14 | 103 | 8:11 |
| **PFDoA** | | 8.09 | 9.40 | 116 | 8:31 |
| **PFTrDA** | | 7.98 | 7.87 | 98.6 | 8:55 |
| **PFTeDA** | | 7.92 | 8.94 | 113 | 9:19 |
| **PFBS** | | 9.88 | 10.8 | 109 | 5:11 |
| **PFPeS** | | 10.1 | 9.72 | 96.4 | 5:51 |
| **PFHxS** | | 10.0 | 9.16 | 91.6 | 6:47 |
| **PFHpS** | | 10.0 | 11.8 | 118 | 7:33 |
| **PFOS** | | 10.6 | 11.1 | 105 | 7:59 |
| **PFNS** | | 10.1 | 9.28 | 92.1 | 8:17 |
| **PFDS** | | 10.0 | 9.55 | 95.3 | 8:39 |
| **PFDoS** | | 9.92 | 7.90 | 79.6 | 9:29 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_WG72616-103_Form8A_SJ2762499.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72616-103 (DUP WG72616-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 05-Jun-2020 |
| **Extraction Date:** | 23-Jun-2020 | **Instrument ID:** | LC MS/MS |
| **Analysis Date:** | 25-Jun-2020 **Time:** 22:29:32 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0X_063 S: 27** |
| **Injection Volume (uL):** | 3 | **Blank Data Filename:** | FC0X_063 S: 30 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0X_063 S: 23 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 40.0 | 40.5 | 101 | 2:11 |
| **13C5-PFPeA** | | 20.0 | 23.2 | 116 | 4:35 |
| **13C5-PFHxA** | | 10.0 | 9.40 | 94.0 | 5:14 |
| **13C4-PFHpA** | | 10.0 | 10.3 | 103 | 5:50 |
| **13C4-PFOA** | | 10.0 | 10.0 | 100 | 6:42 |
| **13C9-PFNA** | | 2.00 | 1.91 | 95.6 | 7:28 |
| **13C2-PFDA** | | 2.00 | 1.56 | 78.1 | 7:54 |
| **13C7-PFUnA** | | 2.00 | 1.78 | 89.2 | 8:11 |
| **13C2-PFDoA** | | 2.00 | 1.37 | 68.3 | 8:31 |
| **13C2-PFTeDA** | | 2.00 | 1.59 | 79.4 | 9:19 |
| **13C3-PFBS** | | 9.30 | 10.3 | 111 | 5:11 |
| **13C3-PFHxS** | | 9.46 | 9.33 | 98.6 | 6:47 |
| **13C8-PFOS** | | 9.30 | 8.12 | 87.3 | 7:58 |
| **EXTRACTION STANDARD** | | | | | |
| **13C8-PFOSA [2]** | | 24.0 | 0.109 | 0.5 | 8:53 |
| **13C2-PFHxA** | | 25.0 | 23.6 | 94.4 | 5:14 |
| **13C6-PFDA** | | 10.0 | 12.5 | 125 | 7:54 |

(1) Where applicable, custom lab flags have been used on this report.
(2) Reaction monitoring standard, disappearance indicates the completeness of the oxidation of precursors, maximum %recovery is 5%.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_POSTTOP_WG72616-103_Form8B_SJ2762499.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72616-102 (A) LAB FLAG [1] | WG72616-102 (A) CONC. FOUND | WG72616-103 LAB FLAG [1] | WG72616-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 65.3 | | 63.9 | 64.6 | 2.25 |
| **PFPeA** | | 41.5 | | 41.4 | 41.5 | 0.175 |
| **PFHxA** | | 33.7 | | 33.7 | 33.7 | 0.074 |
| **PFHpA** | | 37.0 | | 37.0 | 37.0 | 0.049 |
| **PFOA** | | 157 | | 154 | 156 | 1.89 |
| **PFNA** | | 12.7 | | 10.8 | 11.7 | 15.9 |
| **PFDA** | | 9.34 | | 10.3 | 9.81 | 9.59 |
| **PFUnA** | | 8.60 | | 8.14 | 8.37 | 5.50 |
| **PFDoA** | | 9.39 | | 9.40 | 9.40 | 0.096 |
| **PFTrDA** | | 8.32 | | 7.87 | 8.09 | 5.56 |
| **PFTeDA** | | 7.91 | | 8.94 | 8.43 | 12.2 |
| **PFBS** | | 10.7 | | 10.8 | 10.8 | 0.890 |
| **PFPeS** | | 10.7 | | 9.72 | 10.2 | 9.86 |
| **PFHxS** | | 9.93 | | 9.16 | 9.54 | 8.04 |
| **PFHpS** | | 9.02 | | 11.8 | 10.4 | 26.3 |
| **PFOS** | | 9.40 | | 11.1 | 10.2 | 16.5 |
| **PFNS** | | 9.57 | | 9.28 | 9.43 | 3.13 |
| **PFDS** | | 9.41 | | 9.55 | 9.48 | 1.48 |
| **PFDoS** | | 7.73 | | 7.90 | 7.81 | 2.19 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: RPD.xsl; Created: 22-Jul-2020 13:17:50; Application: XMLTransformer-1.18.8;
Report Filename: RPD_FC_LC_PFAS_POSTTOP-RPD_WG72616-103_WG72616-102_.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 05-Jun-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0X_061 S: 8
**CS2 Data Filename:** FC0X_061 S: 9
**CS3 Data Filename:** FC0X_061 S: 10
**CS4 Data Filename:** FC0X_061 S: 11
**CS5 Data Filename:** FC0X_061 S: 12
**CS6 Data Filename:** FC0X_061 S: 13
**CS7 Data Filename:** FC0X_061 S: 14
**CS8 Data Filename:** N/A

| COMPOUND | LAB FLAG [1] | PERCENT RECOVERY (%) CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | CS7 | CS8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **PFBA** | | | 92.7 | 98.3 | 101 | 105 | 103 | 101 | 99.6 | |
| **PFPeA** | | | 94.0 | 97.2 | 103 | 102 | 103 | 100 | 99.8 | |
| **PFHxA** | | | 86.4 | 110 | 103 | 103 | 96.7 | 102 | 99.5 | |
| **PFHpA** | | | 94.0 | 98.8 | 102 | 101 | 102 | 102 | 99.4 | |
| **PFOA** | | | 102 | 97.5 | 99.6 | 102 | 100 | 98.2 | 100 | |
| **PFNA** | | | 96.0 | 107 | 107 | 92.1 | 97.4 | 100 | 100 | |
| **PFDA** | | | 85.8 | 78.8 | 122 | 109 | 106 | 98.3 | | |
| **PFUnA** | | | 79.2 | 91.0 | 108 | 104 | 108 | 114 | 96.2 | |
| **PFDoA** | | | 84.9 | 116 | 92.5 | 108 | 98.6 | | | |
| **PFTrDA** | | | 88.0 | 98.2 | 107 | 108 | 98.2 | | | |
| **PFTeDA** | | | 93.4 | 95.3 | 104 | 110 | 98.1 | | | |
| **PFBS** | | | 83.4 | 96.4 | 103 | 109 | 106 | 103 | 98.8 | |
| **PFPeS** | | | 91.2 | 97.1 | 112 | 98.5 | 101 | 99.7 | | |
| **PFHxS** | | | 106 | 97.1 | 98.8 | 95.2 | 98.1 | 106 | 98.5 | |
| **PFHpS** | | | 113 | 94.0 | 102 | 93.9 | 102 | 93.6 | 102 | |
| **PFOS** | | | 109 | 122 | 91.9 | 88.5 | 94.3 | 91.9 | 102 | |
| **PFNS** | | | 79.6 | 114 | 116 | 89.0 | 101 | | | |
| **PFDS** | | | 86.0 | 114 | 103 | 96.8 | 100 | | | |
| **PFDoS** | | | 122 | 87.8 | 83.8 | 103 | 103 | 100 | 99.8 | |
| **4:2 FTS** | | | 117 | 97.9 | 106 | 95.1 | 88.8 | 92.4 | 102 | |
| **6:2 FTS** | | | 127 | 109 | 101 | 83.4 | 88.9 | 87.1 | 104 | |
| **8:2 FTS** | | | 102 | 128 | 97.5 | 89.0 | 91.8 | 88.8 | 103 | |
| **FOSAA** | | | 97.5 | 89.3 | 115 | 99.0 | 101 | 97.3 | 101 | |
| **MeFOSAA** | | | | 123 | 84.5 | 96.8 | 94.6 | 101 | | |
| **EtFOSAA** | | | | 112 | 116 | 90.8 | 88.1 | 89.7 | 103 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form3A.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_05-Jun-2020_FC0X__Form3A_GS88013.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 05-Jun-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0X_061 S: 8
**CS2 Data Filename:** FC0X_061 S: 9
**CS3 Data Filename:** FC0X_061 S: 10
**CS4 Data Filename:** FC0X_061 S: 11
**CS5 Data Filename:** FC0X_061 S: 12
**CS6 Data Filename:** FC0X_061 S: 13
**CS7 Data Filename:** FC0X_061 S: 14
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C3-PFBA** | | | 97.6 | 102 | 95.6 | 102 | 102 | 103 | 97.6 | |
| **13C5-PFPeA** | | | 82.0 | 111 | 85.8 | 101 | 120 | 116 | 83.6 | |
| **13C5-PFHxA** | | | 98.1 | 92.7 | 99.9 | 95.1 | 102 | 113 | 99.1 | |
| **13C4-PFHpA** | | | 104 | 98.6 | 103 | 100 | 103 | 95.7 | 95.5 | |
| **13C4-PFOA** | | | 102 | 98.0 | 101 | 100 | 101 | 104 | 93.6 | |
| **13C9-PFNA** | | | 98.5 | 99.8 | 94.1 | 99.7 | 98.1 | 109 | 101 | |
| **13C2-PFDA** | | | 91.2 | 86.3 | 91.6 | 89.2 | 94.0 | 113 | 135 | |
| **13C7-PFUnA** | | | 112 | 91.4 | 102 | 92.9 | 96.2 | 97.8 | 108 | |
| **13C2-PFDoA** | | | 84.6 | 81.9 | 98.2 | 80.7 | 92.0 | 121 | 142 | |
| **13C2-PFTeDA** | | | 100 | 97.8 | 98.4 | 89.4 | 93.0 | 122 | | |
| **13C3-PFBS** | | | 78.6 | 111 | 86.9 | 99.7 | 121 | 102 | 100 | |
| **13C3-PFHxS** | | | 94.0 | 98.2 | 94.9 | 98.2 | 99.5 | 91.0 | 124 | |
| **13C8-PFOS** | | | 94.0 | 101 | 96.3 | 102 | 102 | 106 | 98.1 | |
| **ADDITIONAL STANDARD** | | | | | | | | | | |
| **13C2-PFHxA** | | | 98.3 | 100 | 99.2 | 104 | 96.9 | 101 | 101 | |
| **13C6-PFDA** | | | 110 | 106 | 110 | 106 | 103 | 92.5 | 72.7 | |
| **13C8-PFOSA** | | | 100 | 98.5 | 96.1 | 92.0 | 99.5 | 114 | | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form3B.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_05-Jun-2020_FC0X__Form3B_GS88013.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 05-Jun-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A

**CS1 Data Filename:** FC0X_061 S: 8

**CS2 Data Filename:** FC0X_061 S: 9

**CS3 Data Filename:** FC0X_061 S: 10

**CS4 Data Filename:** FC0X_061 S: 11

**CS5 Data Filename:** FC0X_061 S: 12

**CS6 Data Filename:** FC0X_061 S: 13

**CS7 Data Filename:** FC0X_061 S: 14

**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 2:09 | 2:06 | 2:08 | 2:06 | 2:06 | 2:06 | 2:07 | | 2:07 |
| **PFPeA** | | | 4:38 | 4:38 | 4:38 | 4:37 | 4:37 | 4:38 | 4:39 | | 4:38 |
| **PFHxA** | | | 5:13 | 5:14 | 5:13 | 5:13 | 5:12 | 5:13 | 5:14 | | 5:13 |
| **PFHpA** | | | 5:48 | 5:48 | 5:47 | 5:47 | 5:47 | 5:47 | 5:48 | | 5:47 |
| **PFOA** | | | 6:38 | 6:40 | 6:38 | 6:38 | 6:38 | 6:39 | 6:39 | | 6:39 |
| **PFNA** | | | 7:24 | 7:25 | 7:24 | 7:24 | 7:24 | 7:25 | 7:25 | | 7:24 |
| **PFDA** | | | 7:50 | 7:51 | 7:50 | 7:50 | 7:50 | 7:50 | | | 7:50 |
| **PFUnA** | | | 8:08 | 8:09 | 8:08 | 8:07 | 8:07 | 8:08 | 8:09 | | 8:08 |
| **PFDoA** | | | 8:28 | 8:28 | 8:27 | 8:26 | 8:27 | | | | 8:27 |
| **PFTrDA** | | | 8:52 | 8:52 | 8:51 | 8:50 | 8:51 | | | | 8:51 |
| **PFTeDA** | | | 9:17 | 9:17 | 9:16 | 9:16 | 9:16 | | | | 9:16 |
| **PFBS** | | | 5:10 | 5:11 | 5:11 | 5:10 | 5:09 | 5:10 | 5:11 | | 5:10 |
| **PFPeS** | | | 5:48 | 5:49 | 5:48 | 5:48 | 5:48 | 5:49 | | | 5:48 |
| **PFHxS** | | | 6:44 | 6:45 | 6:43 | 6:43 | 6:43 | 6:44 | 6:44 | | 6:44 |
| **PFHpS** | | | 7:30 | 7:31 | 7:29 | 7:29 | 7:29 | 7:30 | 7:30 | | 7:30 |
| **PFOS** | | | 7:55 | 7:56 | 7:54 | 7:54 | 7:54 | 7:55 | 7:56 | | 7:55 |
| **PFNS** | | | 8:13 | 8:14 | 8:13 | 8:12 | 8:13 | | | | 8:13 |
| **PFDS** | | | 8:35 | 8:35 | 8:34 | 8:34 | 8:34 | | | | 8:34 |
| **PFDoS** | | | 9:27 | 9:26 | 9:26 | 9:25 | 9:26 | 9:26 | 9:27 | | 9:26 |
| **4:2 FTS** | | | 5:05 | 5:06 | 5:06 | 5:05 | 5:04 | 5:05 | 5:06 | | 5:05 |
| **6:2 FTS** | | | 6:19 | 6:19 | 6:18 | 6:18 | 6:18 | 6:19 | 6:19 | | 6:19 |
| **8:2 FTS** | | | 7:41 | 7:42 | 7:41 | 7:41 | 7:41 | 7:42 | 7:42 | | 7:41 |
| **FOSAA** | | | 7:43 | 7:44 | 7:43 | 7:42 | 7:42 | 7:43 | 7:43 | | 7:43 |
| **MeFOSAA** | | | | 7:53 | 7:52 | 7:52 | 7:52 | 7:53 | | | 7:52 |
| **EtFOSAA** | | | | 8:01 | 8:00 | 8:00 | 8:00 | 8:00 | 8:01 | | 8:00 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_05-Jun-2020_FC0X__Form3C_GS88013.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 05-Jun-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A

**CS1 Data Filename:** FC0X_061 S: 8

**CS2 Data Filename:** FC0X_061 S: 9

**CS3 Data Filename:** FC0X_061 S: 10

**CS4 Data Filename:** FC0X_061 S: 11

**CS5 Data Filename:** FC0X_061 S: 12

**CS6 Data Filename:** FC0X_061 S: 13

**CS7 Data Filename:** FC0X_061 S: 14

**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C3-PFBA** | | | 2:08 | 2:06 | 2:07 | 2:06 | 2:05 | 2:06 | 2:07 | | 2:06 |
| **13C5-PFPeA** | | | 4:38 | 4:38 | 4:38 | 4:37 | 4:37 | 4:38 | 4:39 | | 4:38 |
| **13C5-PFHxA** | | | 5:13 | 5:14 | 5:13 | 5:12 | 5:12 | 5:13 | 5:14 | | 5:13 |
| **13C4-PFHpA** | | | 5:48 | 5:48 | 5:47 | 5:47 | 5:47 | 5:47 | 5:48 | | 5:47 |
| **13C4-PFOA** | | | 6:39 | 6:40 | 6:38 | 6:38 | 6:38 | 6:39 | 6:39 | | 6:39 |
| **13C9-PFNA** | | | 7:25 | 7:25 | 7:24 | 7:24 | 7:24 | 7:25 | 7:25 | | 7:25 |
| **13C2-PFDA** | | | 7:50 | 7:51 | 7:50 | 7:50 | 7:50 | 7:50 | 7:51 | | 7:50 |
| **13C7-PFUnA** | | | 8:08 | 8:09 | 8:08 | 8:07 | 8:07 | 8:08 | 8:09 | | 8:08 |
| **13C2-PFDoA** | | | 8:28 | 8:28 | 8:27 | 8:27 | 8:27 | 8:28 | 8:28 | | 8:28 |
| **13C2-PFTeDA** | | | 9:17 | 9:17 | 9:16 | 9:16 | 9:16 | 9:17 | | | 9:17 |
| **13C3-PFBS** | | | 5:10 | 5:11 | 5:11 | 5:10 | 5:09 | 5:10 | 5:11 | | 5:10 |
| **13C3-PFHxS** | | | 6:43 | 6:44 | 6:43 | 6:43 | 6:43 | 6:44 | 6:44 | | 6:43 |
| **13C8-PFOS** | | | 7:55 | 7:56 | 7:54 | 7:54 | 7:54 | 7:55 | 7:56 | | 7:55 |
| **ADDITIONAL STANDARD** | | | | | | | | | | | |
| **13C2-PFHxA** | | | 5:13 | 5:14 | 5:13 | 5:13 | 5:12 | 5:13 | 5:14 | | 5:13 |
| **13C6-PFDA** | | | 7:50 | 7:51 | 7:50 | 7:50 | 7:49 | 7:50 | 7:51 | | 7:50 |
| **13C8-PFOSA** | | | 8:58 | 8:58 | 8:56 | 8:56 | 8:57 | 8:58 | | | 8:57 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_05-Jun-2020_FC0X__Form3D_GS88013.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 05-Jun-2020 | **VER Data Filename:** | FC0X_063 S: 23 |
| **Instrument ID:** | LC MS/MS | **Analysis Date:** | 25-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 21:37:17 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:10 | 200 | 198 | 98.8 |
| **PFPeA** | | 4:35 | 100 | 99.4 | 99.4 |
| **PFHxA** | | 5:14 | 50.0 | 50.4 | 101 |
| **PFHpA** | | 5:50 | 50.0 | 51.2 | 102 |
| **PFOA** | | 6:43 | 50.0 | 55.7 | 111 |
| **PFNA** | | 7:29 | 42.8 | 43.1 | 101 |
| **PFDA** | | 7:54 | 40.0 | 41.9 | 105 |
| **PFUnA** | | 8:12 | 40.0 | 42.3 | 106 |
| **PFDoA** | | 8:32 | 40.0 | 43.9 | 110 |
| **PFTrDA** | | 8:55 | 40.0 | 42.2 | 105 |
| **PFTeDA** | | 9:19 | 40.0 | 43.1 | 108 |
| **PFBS** | | 5:11 | 50.0 | 50.9 | 102 |
| **PFPeS** | | 5:52 | 50.0 | 48.5 | 97.1 |
| **PFHxS** | | 6:48 | 50.0 | 48.1 | 96.3 |
| **PFHpS** | | 7:34 | 50.0 | 46.7 | 93.4 |
| **PFOS** | | 7:59 | 50.0 | 44.0 | 87.9 |
| **PFNS** | | 8:18 | 50.0 | 48.2 | 96.5 |
| **PFDS** | | 8:39 | 50.0 | 52.0 | 104 |
| **PFDoS** | | 9:29 | 50.0 | 56.5 | 113 |
| **4:2 FTS** | | 5:06 | 100 | 112 | 112 |
| **6:2 FTS** | | 6:22 | 100 | 109 | 109 |
| **8:2 FTS** | | 7:46 | 100 | 137 | 137 |
| **FOSAA** | | 7:47 | 50.0 | 57.4 | 115 |
| **MeFOSAA** | | 7:56 | 50.0 | 57.1 | 114 |
| **EtFOSAA** | | 8:04 | 50.0 | 52.1 | 104 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0X_063S23__Form4A_SJ2762494.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 05-Jun-2020 | **VER Data Filename:** | FC0X_063 S: 23 |
| **Instrument ID:** | LC MS/MS | **Analysis Date:** | 25-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 21:37:17 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 2:10 | 40.0 | 40.8 | 102 |
| **13C5-PFPeA** | | 4:35 | 20.0 | 21.2 | 106 |
| **13C5-PFHxA** | | 5:14 | 10.0 | 8.61 | 86.1 |
| **13C4-PFHpA** | | 5:50 | 10.0 | 10.8 | 108 |
| **13C4-PFOA** | | 6:43 | 10.0 | 9.58 | 95.8 |
| **13C9-PFNA** | | 7:29 | 2.00 | 1.84 | 91.8 |
| **13C2-PFDA** | | 7:54 | 2.00 | 1.95 | 97.5 |
| **13C7-PFUnA** | | 8:12 | 2.00 | 2.07 | 104 |
| **13C2-PFDoA** | | 8:32 | 2.00 | 1.90 | 95.1 |
| **13C2-PFTeDA** | | 9:20 | 2.00 | 2.10 | 105 |
| **13C3-PFBS** | | 5:11 | 9.30 | 10.8 | 116 |
| **13C3-PFHxS** | | 6:48 | 9.46 | 9.43 | 99.7 |
| **13C8-PFOS** | | 7:59 | 9.30 | 9.29 | 99.9 |
| **ADDITIONAL STANDARD** | | | | | |
| **13C8-PFOSA** | | 8:54 | 24.0 | 27.6 | 115 |
| **13C2-PFHxA** | | 5:14 | 25.0 | 25.4 | 102 |
| **13C6-PFDA** | | 7:54 | 10.0 | 10.5 | 105 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0X_063S23__Form4B_SJ2762494.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 05-Jun-2020 | **VER Data Filename:** | FC0X_063 S: 39 |
| **Instrument ID:** | LC MS/MS | **Analysis Date:** | 26-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:06:19 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 2:10 | 200 | 208 | 104 |
| **PFPeA** | | 4:34 | 100 | 99.8 | 99.8 |
| **PFHxA** | | 5:13 | 50.0 | 54.8 | 110 |
| **PFHpA** | | 5:49 | 50.0 | 50.9 | 102 |
| **PFOA** | | 6:41 | 50.0 | 48.1 | 96.3 |
| **PFNA** | | 7:27 | 42.8 | 42.5 | 99.2 |
| **PFDA** | | 7:53 | 40.0 | 46.8 | 117 |
| **PFUnA** | | 8:11 | 40.0 | 39.2 | 98.1 |
| **PFDoA** | | 8:31 | 40.0 | 41.8 | 105 |
| **PFTrDA** | | 8:55 | 40.0 | 38.3 | 95.9 |
| **PFTeDA** | | 9:19 | 40.0 | 37.6 | 94.0 |
| **PFBS** | | 5:10 | 50.0 | 53.5 | 107 |
| **PFPeS** | | 5:50 | 50.0 | 47.1 | 94.3 |
| **PFHxS** | | 6:46 | 50.0 | 48.7 | 97.5 |
| **PFHpS** | | 7:32 | 50.0 | 45.3 | 90.7 |
| **PFOS** | | 7:58 | 50.0 | 42.5 | 84.9 |
| **PFNS** | | 8:17 | 50.0 | 42.8 | 85.6 |
| **PFDS** | | 8:39 | 50.0 | 47.9 | 95.7 |
| **PFDoS** | | 9:29 | 50.0 | 45.9 | 91.8 |
| **4:2 FTS** | | 5:05 | 100 | 101 | 101 |
| **6:2 FTS** | | 6:20 | 100 | 99.7 | 99.7 |
| **8:2 FTS** | | 7:44 | 100 | 115 | 115 |
| **FOSAA** | | 7:45 | 50.0 | 52.3 | 105 |
| **MeFOSAA** | | 7:55 | 50.0 | 51.4 | 103 |
| **EtFOSAA** | | 8:03 | 50.0 | 43.1 | 86.1 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0X_063S39__Form4A_SJ2762513.html; Workgroup: WG72616; Design ID: 3769 ]

**SGS AXYS METHOD MLA-111 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 05-Jun-2020 | **VER Data Filename:** | FC0X_063 S: 39 |
| **Instrument ID:** | LC MS/MS | **Analysis Date:** | 26-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:06:19 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C3-PFBA** | | 2:09 | 40.0 | 38.5 | 96.2 |
| **13C5-PFPeA** | | 4:34 | 20.0 | 22.9 | 114 |
| **13C5-PFHxA** | | 5:13 | 10.0 | 8.70 | 87.0 |
| **13C4-PFHpA** | | 5:49 | 10.0 | 11.0 | 110 |
| **13C4-PFOA** | | 6:40 | 10.0 | 11.1 | 111 |
| **13C9-PFNA** | | 7:26 | 2.00 | 1.95 | 97.7 |
| **13C2-PFDA** | | 7:53 | 2.00 | 1.73 | 86.6 |
| **13C7-PFUnA** | | 8:11 | 2.00 | 1.98 | 99.1 |
| **13C2-PFDoA** | | 8:31 | 2.00 | 1.80 | 89.8 |
| **13C2-PFTeDA** | | 9:19 | 2.00 | 2.00 | 100 |
| **13C3-PFBS** | | 5:10 | 9.30 | 10.7 | 115 |
| **13C3-PFHxS** | | 6:46 | 9.46 | 9.87 | 104 |
| **13C8-PFOS** | | 7:58 | 9.30 | 10.5 | 113 |
| **ADDITIONAL STANDARD** | | | | | |
| **13C8-PFOSA** | | 8:53 | 24.0 | 26.2 | 109 |
| **13C2-PFHxA** | | 5:13 | 25.0 | 27.4 | 110 |
| **13C6-PFDA** | | 7:53 | 10.0 | 11.1 | 111 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 22-Jul-2020 12:59:36; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0X_063S39__Form4B_SJ2762513.html; Workgroup: WG72616; Design ID: 3769 ]

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | | Y | Y | Y | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | | Y | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | | Y | | | | | | | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | Y | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | Y | | | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 168 2,3',4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 191 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y |

**Accreditation Scope**
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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | Y | | |

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| | | | | Serum | Solids | | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | | Y | | | Y | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |

# Accreditation Scope

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file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | | | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | Y | | | Y | Y | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | Y | | | | Y | | Y | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | Y | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | Y | | | | | Y | | | | | | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | Y | | | | | Y | | | Y | | | Y | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | |

# Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | Y | Y | | | Y | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | Y | | Y | | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | Y | | | Y | | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | | Y | | | | Y | Y | Y |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | Y | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analytical Services Ltd.
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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 49

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | ursodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

Note ** PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15

| Legend | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |

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**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES** **PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**
**4095:** L33098-1 to -20

**Project name: P1007/60608807**
**Work order number: 3000026468**

**27 July 2020**

## NARRATIVE

This narrative describes the analysis of twenty aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 20th of May, 2020. The temperature of the samples upon receipt ranged from 9.3˚C to 9.5˚C, exceeding the method recommended arrival temperature of 0-4°C. The samples were stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG72614; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of a procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) sample, and a duplicate OPR. The lab blank and OPR's were prepared using Canadian Springs water as the matrix.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 500 mL of sample was accurately weighed, spiked with isotopically labeled quantification standards and extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L33098-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra "test suffix" code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix, and was combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
N = dilution of the sample extract followed by instrumental analysis

The laboratory qualifiers used to report results were as follows:

J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
U = identifies a compound that was not detected
V = surrogate recovery was not within method specifications
E = exceeds calibrated linear range, see dilution data
D = dilution data
X = result reported separately
H = concentration is estimated
B = analyte found in the blank
N = authentic recovery in the OPR is not within contract control limits

Results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The samples and QC samples were analyzed in one analysis batch and was carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank, and labeled compound recovery specifications were met with the following exceptions:

The analyte PFOSA was detected in the Lab Blank (SGS AXYS ID: WG72614-101). Data are not blank corrected. Blank data should be taken into consideration when evaluating sample data.

Percent recovery of analytes ADONA and 9Cl-PF3ONS in the OPR (SGS AXYS ID: WG72614-102) were above the contract nominal limit and were flagged with an ‘N’. Sample data may be similarly affected.

The Relative Percent Difference (RPD) value of above 20% was observed for analyte HFPO-DA between the OPR and OPR duplicate (SGS AXYS ID: WG72614-102 and -103, respectively). Overall, there was good agreement in target analyte concentrations between the samples.

Percent recovery of analytes 9Cl-PF3ONS and 11Cl-PF3OUdS in the continuing calibration (data filename: FC0L_212 S: 69) were above the contract nominal limit.

Percent recovery of several labeled compounds in several client samples were below the contract nominal limit and were flagged with a ‘V’. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only. Where the percent recovery for a labeled compound fell below 10% and half of the method lower control limits but above 1% the native analyte with the labeled compound being its exact labeled analogue was reported in a ‘concentration is estimated’ capacity and flagged with an 'H’.

**ANALYTICAL DISCUSSION**

The samples RC22-WAT-BULK-01-051420 and RC12-WAT-BULK-01-051820 (SGS AXYS ID: L33098-6, and -14, respectively) were diluted and instrumentally re-analyzed to bring the area response of some targets to within the calibrated linear range of the instrument. The affected target concentrations are reported from the diluted extract (indicated by suffix ‘**N**’ on the SGS AXYS ID). The dilution factors are provided on the reports for the dilution analyses.

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG73031. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'
- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

Bryan Alonzo — 27-Jul-20

Signed: Bryan Alonzo, B. Sc., Data Validation Chemist — Date Signed

# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000026468

**Contract: 4095**
**Data Package Identification: DPWG73031**

**Analysis WG72614**

## 27 July 2020

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentrat ion of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

## 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.
2 Alternate transition, second m/z, may be used if necessary to avoid interference.
3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.
4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.
5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

**PFAS: Naming Convention and CAS Numbers**

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |

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**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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SGS AXYS Analytical Services Ltd, 2045 Mills Road W., Sidney, BC, Canada, V8L 5X2. Tel. (250) 655-5800, fax (250) 655-5811.
This is not a controlled document; it is subject to change without notification.

**SGS AXYS Analytical Services Ltd.**

[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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**SGS AXYS Analytical Services Ltd.**

## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000026468** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG73031** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72614-101 |
| OPR | WG72614-102 |
| OPR DUPLICATE | WG72614-103 |
| | |
| 393004067424 | L33098-1 |
| 393004067435 | L33098-2 |
| EP9-WAT-BULK-01-051220 | L33098-3 |
| EP15-WAT-BULK-01-051220 | L33098-4 |
| GL1-WAT-BULK-01-051220 | L33098-5 |
| RC22-WAT-BULK-01-051420 | L33098-6 |
| RC23-WAT-BULK-01-051420 | L33098-7 |
| WL6-WAT-BULK-01-051820 | L33098-8 |
| WL15-WAT-BULK-01-051820 | L33098-9 |
| VB3-WAT-BULK-01-051820 | L33098-10 |
| RC3-WAT-BULK-01-051820 | L33098-11 |
| RC7-WAT-BULK-01-051820 | L33098-12 |
| RC20-WAT-BULK-01-051820 | L33098-13 |
| RC12-WAT-BULK-01-051820 | L33098-14 |
| RC14-WAT-BULK-01-051820 | L33098-15 |
| RC21-WAT-BULK-01-051820 | L33098-16 |
| EP19-WAT-BULK-01-051820 | L33098-17 |
| EP20-WAT-BULK-01-051820 | L33098-18 |
| EP16-WAT-BULK-01-051820 | L33098-19 |
| EP18-WAT-BULK-01-051220 | L33098-20 |
| | |
| | |
| | |
| | |
| | |

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

| REPORT TO: | INVOICE TO: |
|---|---|
| Company: AECOM | Company: AECOM |
| Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402 | Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402 |
| Contact: Andrew Tarara | Contact: Andrew Tarara |
| Phone: 612-376-2452 | Phone: 612-376-2452 |
| FAX: | FAX: |
| E-mail: andrew.tarara@aecom.com | E-mail: andrew.tarara@aecom.com |

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOPA |
|---|---|---|---|---|---|---|---|---|---|---|
| EP9-WAT-BULK-01-051220 | W | 5/12/20 | 1410 | HDPE/4 | L33098-3 | X | | | | |
| EP15-WAT-BULK-01-051220 | W | 5/12/20 | 1330 | HDPE/4 | -4 | X | | | | |
| EP18-WAT-BULK-01_051220 | W | 5/12/20 | 1145 | HDPE/8 | -20 | X | | | | X |
| EP18-SED-0-6-01-051220 | S | 5/12/20 | 1130 | HDPE/1 | -8 KTG Completed L33094-1 | X | | | | |
| GL1-WAT-BULK-01-051220 | W | 5/12/20 | 1015 | HDPE/4 | -5 | X | | | | |
| GL1-SED-0-6-01-051220 | S | 5/12/20 | 1000 | HDPE/1 | -2 | X | | | | |
| RC22-WAT-BULK-01-051420 | W | 5/14/20 | 0950 | HDPE/4 | -6 | X | | | | |
| RC22-SED-WET-0-6-01-051420 | S | 5/14/20 | 1015 | HDPE/1 | -3 | X | | | | |
| RC22-SED-WET-6-12-01-051420 | S | 5/14/20 | 1020 | HDPE/1 | -4 | X | | | | |
| RC23-WAT-BULK-01-051420 | W | 5/14/20 | 1110 | HDPE/4 | -7 | X | | | | |
| RC23-SED-WET-0-6-01-051420 | S | 5/14/20 | 1120 | HDPE/1 | -5 | X | | | | |

| | | | |
|---|---|---|---|
| Relinquished by (Signature) | Date: 5/19/20 | Time: 1200 | Received by (Signature): Jennifer Carlson |
| Relinquished by (Signature) | Date: | Time: | Received by (Signature): |

Date: 20 May 2020 Time: 10:35

Courier: FedEX

Waybill No.: No waybill - declared value = $175

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks

www.axysanalytical.com



SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC23-SED-WET-G12-01-051420 | S | 5/14/20 | 1130 | HDPE/1 | L33094-6 | X | | | |
| TRIP BLANK | W | 5/14/20 | - | HDPE/1 | L33098-1 | X | | | X |
| WL16-WAT-BULK-01-051820 | W | 5/18/20 | 1610 | HDPE/4 | -8 | X | | | |
| WL15-WAT-BULK-01-051820 | W | 5/18/20 | 1640 | HDPE/4 | -9 | X | | | |
| YB3-WAT-BULK-01-051820 | W | 5/18/20 | 1715 | HDPE/4 | -10 | X | | | |

Relinquished by (Signature) Date 5/19/20 Time 1200
Received by (Signature) Jennifer Carlson
Date 20 May 2020 Time 10:35
Courier: FedEx
Waybill No.: No waybill - declared value = $175

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time
Sample Receipt

Remarks

| Cooler | |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
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E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-051820 | W | 5/18/20 | 1810 | HDPE/4 | L33098-11 | X | | | |
| RC7-WAT-BULK-01-051820 | W | 5/18/20 | 1200 | HDPE/4 | -12 | X | | | |
| RC20-WAT-BULK-01-051820 | W | 5/18/20 | 1130 | HDPE/4 | -13 | X | | | |
| RC12-WAT-BULK-01-051820 | W | 5/18/20 | 1050 | HDPE/4 | -14 | X | | | |
| RC14-WAT-BULK-01-051820 | | 5/18/20 | 1015 | HDPE/4 | -15 | X | | | |
| RC21-WAT-BULK-01-051820 | | 5/19/20 | 1000 | HDPE/4 | -16 | X | | | |
| EP19-WAT-BULK-01-051820 | | 5/18/20 | 1450 | HDPE/4 | -17 | X | | | |
| EP20-WAT-BULK-01-051820 | | 5/18/20 | 1400 | HDPE/4 | -18 | X | | | |
| EP16-WAT-BULK-01-051820 | | 5/18/20 | 1545 | HDPE/ | -19 | X | | | |
| TRIP BLANK | ↓ | 5/19/20 | — | HDPE/1 | -2 | X | | | X |

Relinquished by (Signature) Date 5/19/20 Time 1200
Received by (Signature) Jennifer Carlsen Date 20 May 2020 Time 10:35
Courier: FedEx
Waybill No.: 8149 0905 3731

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form revision 2017.0328

*** indicates a required field**

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

**PROJECT/CLIENT INFO**

Facility Code:* SR0001491 — Program Code (MDH Lab Only):

Project Name:* Project 1007 — Project Task Code:* PRJ08141

Project Manager: Andrew Tarara

Potential Hazard? — If yes, add information to **Sampler Comments** field

**LABORATORY**

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**ANALYSIS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (mm/dd/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | Complete ONLY if Method is CT, CF, D-T, or D-F: End Date (mm/dd/yyyy) | Complete ONLY if Method is CT, CF, D-T, or D-F: End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. / ANALYSIS* | FF | MLA-110 | TOPA | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIELDQC | 393004067424 | QC-TB | 19/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | X | | L33098-1 | 1 |
| FIELDQC | 393004067435 | QC-TB | 14/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | | X | | L33098-2 | 2 |
| 82-0106-00-207 | EP9-WAT-BULK-01-051220 | Sample | 12/05/2020 | 14:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-3 | 3 |
| 82-0106-00-209 | EP15-WAT-BULK-01-051220 | Sample | 12/05/2020 | 13:30 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-4 | 4 |
| 82-0113-00-201 | GL1-WAT-BULK-01-051220 | Sample | 12/05/2020 | 10:15 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-5 | 5 |
| PS00175 | RC22-WAT-BULK-01-051420 | Sample | 14/05/2020 | 09:50 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-6 | 6 |
| PS00176 | RC23-WAT-BULK-01-051420 | Sample | 14/05/2020 | 11:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-7 | 7 |
| S016-071 | WL6-WAT-BULK-01-051820 | Sample | 18/05/2020 | 16:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-8 | 8 |
| PS00171 | WL15-WAT-BULK-01-051820 | Sample | 18/05/2020 | 16:40 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-9 | 9 |
| S016-316 | VB3-WAT-BULK-01-051820 | Sample | 18/05/2020 | 17:15 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-10 | 10 |
| S016-051 | RC3-WAT-BULK-01-051820 | Sample | 18/05/2020 | 18:10 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-11 | 11 |
| S016-053 | RC7-WAT-BULK-01-051820 | Sample | 18/05/2020 | 12:00 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-12 | 12 |
| S016-276 | RC20-WAT-BULK-01-051820 | Sample | 18/05/2020 | 11:30 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-13 | 13 |
| S016-060 | RC12-WAT-BULK-01-051820 | Sample | 18/05/2020 | 10:50 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-14 | 14 |
| S016-063 | RC14-WAT-BULK-01-051820 | Sample | 18/05/2020 | 10:15 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-15 | 15 |
| S016-280 | RC21-WAT-BULK-01-051820 | Sample | 18/05/2020 | 10:00 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-16 | 16 |
| 82-0109-00-453 | EP19-WAT-BULK-01-051820 | Sample | 18/05/2020 | 14:50 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-17 | 17 |
| 82-0109-00-454 | EP20-WAT-BULK-01-051820 | Sample | 18/05/2020 | 14:00 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-18 | 18 |
| S016-234 | EP16-WAT-BULK-01-051820 | Sample | 18/05/2020 | 15:45 | | | | G | | | NW | | Wtr-Surf | | | 4 | | | X | | L33098-19 | 19 |
| 82-0109-00-455 | EP18-WAT-BULK-01-051220 | Sample | 12/05/2020 | 11:45 | | | | G | | | NW | | Wtr-Surf | | | 8 | | | X | X | L33098-20 | 20 |

**Sampler's Name:*** Amanda Lanning — **Phone#:** 612-268-9890

**Sampler's Signature:***

**Sampler's Organization:** AECOM

**Billing Organization:**

**Address:**

**Courier Name:**

**Receiving Comments:**

| Relinquished By/Affiliation | Date/Time | Accepted By/Affiliation | Date/Time |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

ORIGIN ID:SYNA (612) 376-2452
Amanda Canning
AECOM
800 LASALLE AVE STE 500

MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 19MAY20
TOTWGT: 121.00 LB
CAD: 6990377/SSF02110

DIMS: 24x14x14 IN
BILL THIRD PARTY
EIN/VAT:

TO **Attn: Sample and Receiving**
**SGS AXYS ANALYTICAL**
**2045 Mills Rd W**

**Sidney, BC V8L5X2**

**CANADA, CA**

(250) 655-5831

**FedEx** Express

**(CA)**

**AWB**

**XQ YYJA**
**NSR AHS**
**PKG:YOUR PKG**

TRK# **3930 0406 7424**
**1 of 2**

Form 0430

**AM**
**INTL PRIORITY**

REF:
DESC1:SAMPLES - Water and Soil Samples in plastic bottles
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 306.00 USD
CUSTOMS VALUE: 306.00 USD

SIGN: Amanda Canning
T/C: 0 141083937
D/T: R

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:35

RECEIVED
MAY 20 2020
Jennifer Carleen

9.4°C
5712
bagged wet ice
melting

WB27492

www.axysanalytical.com

4095

8:39 20MAY2020
USER 3591845 QTY 2
SVC: PO

3930 0406 7424
3930 0406 7435

CLEARED

1752520585 4510

WB27493

10:35

RECEIVED
MAY 20 2020
Jennifer Carlson

bagged wet ice
melting
9.8°C
5740

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 19-MAY-20

Waybill #: 393004067424
Date /Time Received: 20-MAY-20 10:35
Receipt No: WB27492

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDUE

Signature:

Axys Sample ID's: L33098-1, -11 to -19

Matrix Type: aq

Thermometer ID: 5712

Condition of Shipping Container: intact

Corrected Temperature: 9.3 Celcius

Temperature upon Receipt: 9.4 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 19-MAY-20

Waybill #: 393004067435
Date /Time Received: 20-MAY-20 10:35
Receipt No: WB27493

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENOVE Signature:

Axys Sample ID's: L33094-1 to -6 L33098-2 to -10, -20

Matrix Type: S/aq

Thermometer ID: 5740

Condition of Shipping Container: intact

Corrected Temperature: 9.5 Celcius

Temperature upon Receipt: 9.8 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

*Checked 08-Jun-20 DPR*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-1** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| 393004067424 | | FIELDQC | | | |
| 14-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33098-2** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| 393004067435 | | FIELDQC | | | |
| 19-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33098-3** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| EP9-WAT-BULK-01-051220 | | 82-0106-00-207 | | | |
| 12-MAY-20 14:10 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-4** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| EP15-WAT-BULK-01-051220<br>12-MAY-20 13:30 | | 82-0106-00-209<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-5** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| GL1-WAT-BULK-01-051220<br>12-MAY-20 10:15 | | 82-0113-00-201<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-6** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC22-WAT-BULK-01-051420<br>14-MAY-20 09:50 | | PS00175<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-7** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC23-WAT-BULK-01-051420<br>14-MAY-20 11:10 | | PS00176<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-8** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| WL6-WAT-BULK-01-051820<br>18-MAY-20 16:10 | | S016-071<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-9** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| WL15-WAT-BULK-01-051820<br>18-MAY-20 16:40 | | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-10** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| VB3-WAT-BULK-01-051820<br>18-MAY-20 17:15 | | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-11** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC3-WAT-BULK-01-051820<br>18-MAY-20 18:10 | | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-12** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC7-WAT-BULK-01-051820<br>18-MAY-20 12:00 | | S016-053<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-13** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC20-WAT-BULK-01-051820<br>18-MAY-20 11:30 | | S016-276<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-14** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC12-WAT-BULK-01-051820<br>18-MAY-20 10:50 | | S016-060<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-15** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC14-WAT-BULK-01-051820<br>18-MAY-20 10:15 | | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| Axys ID versus Client Sample Identification | | | Received | Due | PR |
|---|---|---|---|---|---|
| **L33098-16** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| RC21-WAT-BULK-01-051820<br>18-MAY-20 10:00 | | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-17** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| EP19-WAT-BULK-01-051820<br>18-MAY-20 14:50 | | 82-0109-00-453<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |
| **L33098-18** | | | 20-MAY-20 | | |
| | | Storage: WIF-4, COOLER BY 11 | | | |
| EP20-WAT-BULK-01-051820<br>18-MAY-20 14:00 | | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| Aqueous | FC110.PS | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:40 PM*

**Login Number:** L33098

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33098-19** | | 20-MAY-20 | | |
| | Storage: WIF-4, COOLER BY 11 | | | |
| EP16-WAT-BULK-01-051820 | S016-234 | | | |
| 18-MAY-20 15:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33098-20** | | 20-MAY-20 | | |
| | Storage: WIF-4, COOLER BY 11 | | | |
| EP18-WAT-BULK-01-051220 | 82-0109-00-455 | | | |
| 12-MAY-20 14:10 | Project #: TIM LOCKREM 2019 | | | |
| Comments: Also for FC111 TOP A | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| EDataDeliv | FC111 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Data Package | FC111 DPKG | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| Aqueous | FC111.POSTOX | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |

www.axysanalytical.com



WB27492

L33098-1, -11 to -19

WB27493

L33098-2 to -10, -20

L33094-1 to -6

Processed by:
RTG/JTC

20 MAY 2020

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**393004067424**
**Sample Collection:**
**14-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.501 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:39:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.19 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.798 (L) | |
| **PFHpA** | U | | 0.798 (L) | |
| **PFOA** | U | | 0.798 (L) | |
| **PFNA** | U | | 0.798 (L) | |
| **PFDA** | U | | 0.798 (L) | |
| **PFUnA** | U | | 0.798 (L) | |
| **PFDoA** | U | | 0.798 (L) | |
| **PFTrDA** | U | | 0.798 (L) | |
| **PFTeDA** | U | | 0.798 (L) | |
| **PFBS** | U | | 0.798 (L) | |
| **PFPeS** | U | | 0.798 (L) | |
| **PFHxS** | U | | 0.798 (L) | |
| **PFHpS** | U | | 0.798 (L) | |
| **PFOS** | U | | 0.798 (L) | |
| **PFNS** | U | | 0.798 (L) | |
| **PFDS** | U | | 0.798 (L) | |
| **PFDoS** | U | | 0.798 (L) | |
| **4:2 FTS** | U | | 3.19 (L) | |
| **6:2 FTS** | U | | 2.87 (L) | |
| **8:2 FTS** | U | | 3.19 (L) | |
| **PFOSA** | U | | 0.798 (L) | |
| **N-MeFOSA** | U | | 0.917 (L) | |
| **N-EtFOSA** | U | | 1.99 (L) | |
| **MeFOSAA** | U | | 0.798 (L) | |
| **EtFOSAA** | U | | 0.798 (L) | |
| **N-MeFOSE** | U | | 7.98 (L) | |
| **N-EtFOSE** | U | | 5.98 (L) | |
| **HFPO-DA** | U | | 3.03 (L) | |
| **ADONA** | U | | 3.19 (L) | |
| **9Cl-PF3ONS** | U | | 3.19 (L) | |
| **11Cl-PF3OUdS** | U | | 3.19 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**393004067424**
**Sample Collection:**
**14-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.501 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:39:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 49** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.5 | 91.4 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.4 | 102 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.61 | 96.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.21 | 92.1 | 5:29 |
| **13C8-PFOA** | | 10.0 | 9.14 | 91.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.54 | 90.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.65 | 93.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.66 | 93.2 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.42 | 88.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.85 | 77.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.56 | 95.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.43 | 94.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.2 | 102 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.9 | 99.7 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 21.6 | 108 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 24.2 | 121 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.09 | 90.9 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.88 | 68.8 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.38 | 73.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 99.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.3 | 101 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.8 | 87.8 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 86.7 | 86.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 39.6 | 99.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-1_Form2_FC0L_212S49_SJ2759040.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**393004067435**
**Sample Collection:**
**19-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.501 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:52:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.799 (L) | |
| **PFHpA** | U | | 0.799 (L) | |
| **PFOA** | U | | 0.799 (L) | |
| **PFNA** | U | | 0.799 (L) | |
| **PFDA** | U | | 0.799 (L) | |
| **PFUnA** | U | | 0.799 (L) | |
| **PFDoA** | U | | 0.799 (L) | |
| **PFTrDA** | U | | 0.799 (L) | |
| **PFTeDA** | U | | 0.799 (L) | |
| **PFBS** | U | | 0.799 (L) | |
| **PFPeS** | U | | 0.799 (L) | |
| **PFHxS** | U | | 0.799 (L) | |
| **PFHpS** | U | | 0.799 (L) | |
| **PFOS** | U | | 0.799 (L) | |
| **PFNS** | U | | 0.799 (L) | |
| **PFDS** | U | | 0.799 (L) | |
| **PFDoS** | U | | 0.799 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.799 (L) | |
| **N-MeFOSA** | U | | 0.919 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.799 (L) | |
| **EtFOSAA** | U | | 0.799 (L) | |
| **N-MeFOSE** | U | | 7.99 (L) | |
| **N-EtFOSE** | U | | 5.99 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**393004067435**
**Sample Collection:**
**19-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.501 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:52:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 50** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.1 | 90.4 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 102 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.90 | 99.0 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.01 | 90.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.05 | 90.5 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.44 | 88.8 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.93 | 98.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.57 | 91.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.41 | 88.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.83 | 76.6 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.78 | 97.8 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.40 | 94.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.8 | 98.9 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 21.5 | 107 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 24.4 | 122 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.68 | 86.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.28 | 62.8 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.00 | 70.0 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.9 | 104 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.5 | 103 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 88.5 | 88.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 87.7 | 87.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 36.5 | 91.4 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-2_Form2_FC0L_212S50_SJ2759041.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP9-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 14:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33098-3 |
| **Sample Receipt Date:** | 20-May-2020 | **Sample Size:** | 0.538 L |
| **Extraction Date:** | 26-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:05:22 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 51** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 660 | 2.98 (L) | 1:51 |
| **PFPeA** | | 13.8 | 1.49 (L) | 4:25 |
| **PFHxA** | | 14.6 | 0.744 (L) | 5:01 |
| **PFHpA** | | 5.39 | 0.744 (L) | 5:29 |
| **PFOA** | | 61.5 | 0.744 (L) | |
| **PFNA** | U | | 0.744 (L) | |
| **PFDA** | U | | 0.744 (L) | |
| **PFUnA** | U | | 0.744 (L) | |
| **PFDoA** | U | | 0.744 (L) | |
| **PFTrDA** | U | | 0.744 (L) | |
| **PFTeDA** | U | | 0.744 (L) | |
| **PFBS** | | 2.77 | 0.744 (L) | 4:58 |
| **PFPeS** | | 2.01 | 0.744 (L) | 5:30 |
| **PFHxS** | | 6.27 | 0.744 (L) | |
| **PFHpS** | J | 0.784 | 0.744 (L) | 7:09 |
| **PFOS** | | 52.3 | 0.744 (L) | |
| **PFNS** | U | | 0.744 (L) | |
| **PFDS** | U | | 0.744 (L) | |
| **PFDoS** | U | | 0.744 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | U | | 0.744 (L) | |
| **N-MeFOSA** | U | | 0.856 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.744 (L) | |
| **EtFOSAA** | U | | 0.744 (L) | |
| **N-MeFOSE** | U | | 7.44 (L) | |
| **N-EtFOSE** | U | | 5.58 (L) | |
| **HFPO-DA** | U | | 2.83 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-3_Form1A_FC0L_212S51_SJ2759042.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP9-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 14:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-3 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.538 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:05:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 51** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 19.6 | 49.0 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 99.1 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.03 | 90.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.57 | 85.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.60 | 86.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.12 | 82.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.55 | 91.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.70 | 94.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.34 | 86.9 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.01 | 60.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.58 | 95.8 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.26 | 92.6 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.51 | 95.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.3 | 96.7 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.8 | 94.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.2 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.18 | 81.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.55 | 65.5 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.95 | 69.5 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 17.5 | 87.7 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.1 | 95.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 82.3 | 82.3 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 80.7 | 80.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 36.3 | 90.6 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-3_Form2_FC0L_212S51_SJ2759042.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP15-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 13:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33098-4 |
| **Sample Receipt Date:** | 20-May-2020 | **Sample Size:** | 0.544 L |
| **Extraction Date:** | 26-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:18:19 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 52** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 478 | 2.94 (L) | 1:50 |
| **PFPeA** | | 10.0 | 1.47 (L) | 4:25 |
| **PFHxA** | | 11.1 | 0.736 (L) | 5:01 |
| **PFHpA** | | 4.91 | 0.736 (L) | 5:29 |
| **PFOA** | | 60.8 | 0.736 (L) | |
| **PFNA** | U | | 0.736 (L) | |
| **PFDA** | U | | 0.736 (L) | |
| **PFUnA** | U | | 0.736 (L) | |
| **PFDoA** | U | | 0.736 (L) | |
| **PFTrDA** | U | | 0.736 (L) | |
| **PFTeDA** | U | | 0.736 (L) | |
| **PFBS** | | 2.20 | 0.736 (L) | 4:58 |
| **PFPeS** | | 1.66 | 0.736 (L) | 5:30 |
| **PFHxS** | | 5.86 | 0.736 (L) | |
| **PFHpS** | J | 0.783 | 0.736 (L) | 7:09 |
| **PFOS** | | 46.8 | 0.736 (L) | |
| **PFNS** | U | | 0.736 (L) | |
| **PFDS** | U | | 0.736 (L) | |
| **PFDoS** | U | | 0.736 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | J | 12.3 | 2.65 (L) | 5:53 |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | U | | 0.736 (L) | |
| **N-MeFOSA** | U | | 0.846 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.736 (L) | |
| **EtFOSAA** | U | | 0.736 (L) | |
| **N-MeFOSE** | U | | 7.36 (L) | |
| **N-EtFOSE** | U | | 5.52 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-4_Form1A_FC0L_212S52_SJ2759043.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP15-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 13:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-4 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:18:19 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 52** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 10.4 | 26.1 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 95.1 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.11 | 91.1 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.82 | 88.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.62 | 86.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.11 | 82.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.84 | 96.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.54 | 90.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.51 | 90.2 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.25 | 65.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.07 | 90.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.98 | 89.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.9 | 89.4 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.9 | 89.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.1 | 100 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.64 | 86.4 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.74 | 67.4 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.82 | 68.2 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.9 | 94.7 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.7 | 98.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 90.1 | 90.1 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 87.7 | 87.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 34.4 | 86.0 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-4_Form2_FC0L_212S52_SJ2759043.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**GL1-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 10:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33098-5 |
| **Sample Receipt Date:** | 20-May-2020 | **Sample Size:** | 0.548 L |
| **Extraction Date:** | 26-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:31:24 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 53** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 30.6 | 2.92 (L) | 1:51 |
| **PFPeA** | J | 2.65 | 1.46 (L) | 4:25 |
| **PFHxA** | J | 1.83 | 0.730 (L) | 5:01 |
| **PFHpA** | J | 1.28 | 0.730 (L) | 5:28 |
| **PFOA** | | 4.71 | 0.730 (L) | |
| **PFNA** | U | | 0.730 (L) | |
| **PFDA** | U | | 0.730 (L) | |
| **PFUnA** | U | | 0.730 (L) | |
| **PFDoA** | U | | 0.730 (L) | |
| **PFTrDA** | U | | 0.730 (L) | |
| **PFTeDA** | U | | 0.730 (L) | |
| **PFBS** | U | | 0.730 (L) | |
| **PFPeS** | U | | 0.730 (L) | |
| **PFHxS** | U | | 0.730 (L) | |
| **PFHpS** | U | | 0.730 (L) | |
| **PFOS** | | 3.02 | 0.730 (L) | |
| **PFNS** | U | | 0.730 (L) | |
| **PFDS** | U | | 0.730 (L) | |
| **PFDoS** | U | | 0.730 (L) | |
| **4:2 FTS** | U | | 2.92 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.92 (L) | |
| **PFOSA** | U | | 0.730 (L) | |
| **N-MeFOSA** | U | | 0.839 (L) | |
| **N-EtFOSA** | U | | 1.82 (L) | |
| **MeFOSAA** | U | | 0.730 (L) | |
| **EtFOSAA** | U | | 0.730 (L) | |
| **N-MeFOSE** | U | | 7.30 (L) | |
| **N-EtFOSE** | U | | 5.47 (L) | |
| **HFPO-DA** | U | | 2.77 (L) | |
| **ADONA** | U | | 2.92 (L) | |
| **9Cl-PF3ONS** | U | | 2.92 (L) | |
| **11Cl-PF3OUdS** | U | | 2.92 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**GL1-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 10:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-5 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.548 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:31:24 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 53** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.9 | 84.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.5 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.13 | 91.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.25 | 82.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.14 | 81.4 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.24 | 84.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.76 | 95.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.45 | 89.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.78 | 75.6 | 8:08 |
| **13C2-PFTeDA** | V | 5.00 | 1.95 | 39.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.06 | 90.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.60 | 86.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.44 | 94.4 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 26.1 | 131 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.5 | 82.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.0 | 89.8 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.51 | 85.1 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.67 | 66.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.40 | 64.0 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.3 | 96.5 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.5 | 97.7 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 78.3 | 78.3 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 72.4 | 72.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 28.4 | 70.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-5_Form2_FC0L_212S53_SJ2759044.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-WAT-BULK-01-051420**
**Sample Collection:**
**14-May-2020 09:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:44:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 574 | 2.94 (L) | 1:50 |
| **PFPeA** | | 53.7 | 1.47 (L) | 4:25 |
| **PFHxA** | | 130 | 0.736 (L) | 5:01 |
| **PFHpA** | | 132 | 0.736 (L) | 5:28 |
| **PFOA** | | 1130 | 0.736 (L) | |
| **PFNA** | | 7.35 | 0.736 (L) | |
| **PFDA** | | 6.45 | 0.736 (L) | 7:33 |
| **PFUnA** | U | | 0.736 (L) | |
| **PFDoA** | U | | 0.736 (L) | |
| **PFTrDA** | U | | 0.736 (L) | |
| **PFTeDA** | U | | 0.736 (L) | |
| **PFBS** | | 38.3 | 0.736 (L) | 4:58 |
| **PFPeS** | | 47.2 | 0.736 (L) | 5:30 |
| **PFHxS** | | 120 | 0.736 (L) | |
| **PFHpS** | | 34.5 | 0.736 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.736 (L) | |
| **PFDS** | U | | 0.736 (L) | |
| **PFDoS** | U | | 0.736 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | | 19.5 | 0.736 (L) | |
| **N-MeFOSA** | U | | 0.847 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.736 (L) | |
| **EtFOSAA** | | 11.2 | 0.736 (L) | |
| **N-MeFOSE** | U | | 7.36 (L) | |
| **N-EtFOSE** | U | | 5.52 (L) | |
| **HFPO-DA** | U | | 2.80 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-WAT-BULK-01-051420**
**Sample Collection:**
**14-May-2020 09:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-6 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:44:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 54** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 26.5 | 66.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.8 | 99.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.55 | 95.5 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.91 | 99.1 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.62 | 86.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.53 | 90.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.33 | 86.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.85 | 77.1 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.64 | 96.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.21 | 92.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.67 | 96.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.5 | 108 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.5 | 77.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.7 | 93.5 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 12.1 | 121 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 10.4 | 104 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 11.0 | 110 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 25.9 | 129 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 25.0 | 125 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 124 | 124 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 124 | 124 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 37.1 | 92.8 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-6_Form2_FC0L_212S54_SJ2759045.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-WAT-BULK-01-051420**
**Sample Collection:**
**14-May-2020 09:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-6 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jul-2020 **Time:** 22:06:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_217 S: 69** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_217 S: 62 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 2080 | 3.68 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-6_Form1A_FC0L_217S69_SJ2760004.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC22-WAT-BULK-01-051420**
**Sample Collection:**
**14-May-2020 09:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-6 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.543 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jul-2020 **Time:** 22:06:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_217 S: 69** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_217 S: 62 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.92 | 99.2 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-6_Form2_FC0L_217S69_SJ2760004.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC23-WAT-BULK-01-051420**
**Sample Collection:**
**14-May-2020 11:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0721 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:07:36 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 65** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 688 | 22.2 (L) | 1:50 |
| **PFPeA** | | 79.7 | 11.1 (L) | 4:25 |
| **PFHxA** | | 166 | 5.55 (L) | 5:01 |
| **PFHpA** | | 164 | 5.55 (L) | 5:28 |
| **PFOA** | | 1340 | 5.55 (L) | |
| **PFNA** | J | 7.41 | 5.55 (L) | |
| **PFDA** | J | 6.81 | 5.55 (L) | 7:33 |
| **PFUnA** | U | | 5.55 (L) | |
| **PFDoA** | U | | 5.55 (L) | |
| **PFTrDA** | U | | 5.55 (L) | |
| **PFTeDA** | U | | 5.55 (L) | |
| **PFBS** | | 52.8 | 5.55 (L) | 4:58 |
| **PFPeS** | | 62.3 | 5.55 (L) | 5:30 |
| **PFHxS** | | 148 | 5.55 (L) | |
| **PFHpS** | | 36.0 | 5.55 (L) | 7:09 |
| **PFOS** | | 2840 | 5.55 (L) | |
| **PFNS** | U | | 5.55 (L) | |
| **PFDS** | U | | 5.55 (L) | |
| **PFDoS** | U | | 5.55 (L) | |
| **4:2 FTS** | U | | 22.2 (L) | |
| **6:2 FTS** | U | | 20.0 (L) | |
| **8:2 FTS** | U | | 22.2 (L) | |
| **PFOSA** | B | 22.4 | 5.55 (L) | |
| **N-MeFOSA** | U | | 6.38 (L) | |
| **N-EtFOSA** | U | | 13.9 (L) | |
| **MeFOSAA** | U | | 5.55 (L) | |
| **EtFOSAA** | | 13.8 | 5.55 (L) | |
| **N-MeFOSE** | U | | 55.5 (L) | |
| **N-EtFOSE** | U | | 41.6 (L) | |
| **HFPO-DA** | U | | 21.1 (L) | |
| **ADONA** | U | | 22.2 (L) | |
| **9Cl-PF3ONS** | U | | 22.2 (L) | |
| **11Cl-PF3OUdS** | U | | 22.2 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-7_Form1A_FC0L_212S65_SJ2759056.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC23-WAT-BULK-01-051420**
**Sample Collection:**
**14-May-2020 11:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-7 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0721 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:07:36 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 65** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.5 | 86.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 96.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.29 | 92.9 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.20 | 92.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.70 | 87.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.18 | 83.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.15 | 83.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.03 | 80.7 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.78 | 75.7 | 8:49 |
| **13C3-PFBS** | | 10.0 | 9.00 | 90.0 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.64 | 86.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.26 | 92.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 91.2 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 19.5 | 97.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.7 | 113 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.75 | 87.5 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 6.69 | 66.9 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.13 | 71.3 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 19.1 | 95.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.5 | 97.5 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 83.4 | 83.4 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 83.6 | 83.6 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 37.3 | 93.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-7_Form2_FC0L_212S65_SJ2759056.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 16:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33098-8 |
| **Sample Receipt Date:** | 20-May-2020 | **Sample Size:** | 0.540 L |
| **Extraction Date:** | 26-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:57:25 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 55** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 384 | 2.96 (L) | 1:51 |
| **PFPeA** | | 12.4 | 1.48 (L) | 4:25 |
| **PFHxA** | | 14.6 | 0.740 (L) | 5:01 |
| **PFHpA** | | 9.63 | 0.740 (L) | 5:29 |
| **PFOA** | | 81.0 | 0.740 (L) | |
| **PFNA** | J | 0.823 | 0.740 (L) | |
| **PFDA** | U | | 0.740 (L) | |
| **PFUnA** | U | | 0.740 (L) | |
| **PFDoA** | U | | 0.740 (L) | |
| **PFTrDA** | U | | 0.740 (L) | |
| **PFTeDA** | U | | 0.740 (L) | |
| **PFBS** | | 4.17 | 0.740 (L) | 4:58 |
| **PFPeS** | | 3.18 | 0.740 (L) | 5:30 |
| **PFHxS** | | 10.6 | 0.740 (L) | |
| **PFHpS** | | 1.66 | 0.740 (L) | 7:09 |
| **PFOS** | | 122 | 0.740 (L) | |
| **PFNS** | U | | 0.740 (L) | |
| **PFDS** | U | | 0.740 (L) | |
| **PFDoS** | U | | 0.740 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | U | | 0.740 (L) | |
| **N-MeFOSA** | U | | 0.851 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.740 (L) | |
| **EtFOSAA** | U | | 0.740 (L) | |
| **N-MeFOSE** | U | | 7.40 (L) | |
| **N-EtFOSE** | U | | 5.55 (L) | |
| **HFPO-DA** | U | | 2.81 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-8_Form1A_FC0L_212S55_SJ2759046.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL6-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 16:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-8 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 04:57:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 55** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.69 | 14.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 16.4 | 82.0 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.82 | 88.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.73 | 87.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.50 | 85.0 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.20 | 84.1 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.71 | 94.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.38 | 87.7 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.26 | 85.2 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 2.97 | 59.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.85 | 88.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.45 | 84.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.69 | 96.9 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.7 | 93.4 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 15.9 | 79.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.8 | 93.9 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.24 | 92.4 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.36 | 73.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.67 | 76.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.3 | 91.4 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.7 | 93.5 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 85.5 | 85.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 86.1 | 86.1 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 33.7 | 84.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-8_Form2_FC0L_212S55_SJ2759046.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 16:40**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.534 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:10:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 223 | 3.00 (L) | 1:51 |
| **PFPeA** | | 7.38 | 1.50 (L) | 4:25 |
| **PFHxA** | | 8.64 | 0.750 (L) | 5:01 |
| **PFHpA** | | 6.97 | 0.750 (L) | 5:29 |
| **PFOA** | | 84.3 | 0.750 (L) | |
| **PFNA** | | 2.77 | 0.750 (L) | |
| **PFDA** | | 3.61 | 0.750 (L) | 7:33 |
| **PFUnA** | U | | 0.750 (L) | |
| **PFDoA** | U | | 0.750 (L) | |
| **PFTrDA** | U | | 0.750 (L) | |
| **PFTeDA** | U | | 0.750 (L) | |
| **PFBS** | | 2.60 | 0.750 (L) | 4:58 |
| **PFPeS** | | 2.47 | 0.750 (L) | 5:30 |
| **PFHxS** | | 9.68 | 0.750 (L) | |
| **PFHpS** | | 3.60 | 0.750 (L) | 7:09 |
| **PFOS** | | 736 | 0.750 (L) | |
| **PFNS** | U | | 0.750 (L) | |
| **PFDS** | U | | 0.750 (L) | |
| **PFDoS** | U | | 0.750 (L) | |
| **4:2 FTS** | U | | 3.00 (L) | |
| **6:2 FTS** | U | | 2.70 (L) | |
| **8:2 FTS** | U | | 3.00 (L) | |
| **PFOSA** | B | 1.94 | 0.750 (L) | |
| **N-MeFOSA** | U | | 0.862 (L) | |
| **N-EtFOSA** | U | | 1.87 (L) | |
| **MeFOSAA** | U | | 0.750 (L) | |
| **EtFOSAA** | | 2.34 | 0.750 (L) | |
| **N-MeFOSE** | U | | 7.50 (L) | |
| **N-EtFOSE** | U | | 5.62 (L) | |
| **HFPO-DA** | U | | 2.85 (L) | |
| **ADONA** | U | | 3.00 (L) | |
| **9Cl-PF3ONS** | U | | 3.00 (L) | |
| **11Cl-PF3OUdS** | U | | 3.00 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-9_Form1A_FC0L_212S56_SJ2759047.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**WL15-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 16:40**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-9 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.534 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:10:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 56** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 12.4 | 31.0 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 18.2 | 91.1 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.12 | 91.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.91 | 89.1 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.51 | 85.1 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.05 | 81.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.71 | 94.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.60 | 92.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.53 | 90.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 2.76 | 55.2 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.80 | 88.0 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 7.87 | 78.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.39 | 93.9 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.0 | 95.0 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.8 | 84.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.0 | 94.9 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.08 | 90.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.30 | 83.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.24 | 82.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.5 | 103 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.2 | 95.8 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 85.5 | 85.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 82.5 | 82.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 34.7 | 86.7 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-9_Form2_FC0L_212S56_SJ2759047.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 17:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:23:27 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 57** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | H | 229 | 3.00 (L) | 1:51 |
| **PFPeA** | | 8.28 | 1.50 (L) | 4:25 |
| **PFHxA** | | 3.53 | 0.751 (L) | 5:01 |
| **PFHpA** | J | 1.40 | 0.751 (L) | 5:28 |
| **PFOA** | | 11.4 | 0.751 (L) | |
| **PFNA** | U | | 0.751 (L) | |
| **PFDA** | U | | 0.751 (L) | |
| **PFUnA** | U | | 0.751 (L) | |
| **PFDoA** | U | | 0.751 (L) | |
| **PFTrDA** | U | | 0.751 (L) | |
| **PFTeDA** | U | | 0.751 (L) | |
| **PFBS** | | 2.28 | 0.751 (L) | 4:58 |
| **PFPeS** | J | 0.802 | 0.751 (L) | 5:30 |
| **PFHxS** | | 3.32 | 0.751 (L) | |
| **PFHpS** | U | | 0.751 (L) | |
| **PFOS** | | 13.3 | 0.751 (L) | |
| **PFNS** | U | | 0.751 (L) | |
| **PFDS** | U | | 0.751 (L) | |
| **PFDoS** | U | | 0.751 (L) | |
| **4:2 FTS** | U | | 3.00 (L) | |
| **6:2 FTS** | U | | 2.70 (L) | |
| **8:2 FTS** | U | | 3.00 (L) | |
| **PFOSA** | U | | 0.751 (L) | |
| **N-MeFOSA** | U | | 0.864 (L) | |
| **N-EtFOSA** | U | | 1.88 (L) | |
| **MeFOSAA** | U | | 0.751 (L) | |
| **EtFOSAA** | U | | 0.751 (L) | |
| **N-MeFOSE** | U | | 7.51 (L) | |
| **N-EtFOSE** | U | | 5.63 (L) | |
| **HFPO-DA** | U | | 2.85 (L) | |
| **ADONA** | U | | 3.00 (L) | |
| **9Cl-PF3ONS** | U | | 3.00 (L) | |
| **11Cl-PF3OUdS** | U | | 3.00 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; H = concentration is estimated.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-10_Form1A_FC0L_212S57_SJ2759048.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**VB3-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 17:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-10 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:23:27 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 57** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 3.98 | 9.95 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 15.4 | 77.2 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 8.89 | 88.9 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.36 | 83.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.17 | 81.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.10 | 82.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.43 | 88.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.22 | 84.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.34 | 86.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 2.62 | 52.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.20 | 92.0 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.25 | 82.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 8.47 | 84.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 91.1 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.1 | 90.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.3 | 96.5 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.78 | 87.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.71 | 77.1 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.94 | 79.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 16.9 | 84.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.9 | 89.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 77.1 | 77.1 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 74.4 | 74.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 33.6 | 83.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-10_Form2_FC0L_212S57_SJ2759048.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 18:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-11 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0718 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:20:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 66** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 601 | 22.3 (L) | 1:51 |
| **PFPeA** | | 96.2 | 11.1 (L) | 4:25 |
| **PFHxA** | | 194 | 5.57 (L) | 5:01 |
| **PFHpA** | | 232 | 5.57 (L) | 5:28 |
| **PFOA** | | 2280 | 5.57 (L) | |
| **PFNA** | | 23.2 | 5.57 (L) | |
| **PFDA** | | 26.3 | 5.57 (L) | 7:33 |
| **PFUnA** | U | | 5.57 (L) | |
| **PFDoA** | U | | 5.57 (L) | |
| **PFTrDA** | U | | 5.57 (L) | |
| **PFTeDA** | U | | 5.57 (L) | |
| **PFBS** | | 62.5 | 5.57 (L) | 4:58 |
| **PFPeS** | | 82.6 | 5.57 (L) | 5:30 |
| **PFHxS** | | 239 | 5.57 (L) | |
| **PFHpS** | | 95.9 | 5.57 (L) | 7:09 |
| **PFOS** | | 8810 | 5.57 (L) | |
| **PFNS** | U | | 5.57 (L) | |
| **PFDS** | U | | 5.57 (L) | |
| **PFDoS** | U | | 5.57 (L) | |
| **4:2 FTS** | U | | 22.3 (L) | |
| **6:2 FTS** | U | | 20.1 (L) | |
| **8:2 FTS** | U | | 22.3 (L) | |
| **PFOSA** | | 64.5 | 5.57 (L) | |
| **N-MeFOSA** | U | | 6.41 (L) | |
| **N-EtFOSA** | U | | 13.9 (L) | |
| **MeFOSAA** | U | | 5.57 (L) | |
| **EtFOSAA** | | 95.8 | 5.57 (L) | |
| **N-MeFOSE** | U | | 55.7 (L) | |
| **N-EtFOSE** | U | | 41.8 (L) | |
| **HFPO-DA** | U | | 21.2 (L) | |
| **ADONA** | U | | 22.3 (L) | |
| **9Cl-PF3ONS** | U | | 22.3 (L) | |
| **11Cl-PF3OUdS** | U | | 22.3 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-11_Form1A_FC0L_212S66_SJ2759057.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 18:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-11 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0718 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:20:33 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 66** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.0 | 82.5 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.9 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.07 | 90.7 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.53 | 85.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 7.82 | 78.2 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.10 | 82.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.09 | 81.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.51 | 70.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.25 | 65.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 8.82 | 88.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.45 | 84.5 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.09 | 90.9 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.4 | 86.8 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 19.1 | 95.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.3 | 107 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.85 | 98.5 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.33 | 73.3 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.64 | 76.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 21.0 | 105 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 21.0 | 105 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 89.5 | 89.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 91.3 | 91.3 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 29.1 | 72.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-11_Form2_FC0L_212S66_SJ2759057.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 12:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-12 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0675 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:33:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 67** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 383 | 23.7 (L) | 1:52 |
| **PFPeA** | | 57.3 | 11.8 (L) | 4:25 |
| **PFHxA** | | 122 | 5.92 (L) | 5:01 |
| **PFHpA** | | 141 | 5.92 (L) | 5:29 |
| **PFOA** | | 1250 | 5.92 (L) | |
| **PFNA** | J | 8.62 | 5.92 (L) | |
| **PFDA** | J | 6.57 | 5.92 (L) | 7:33 |
| **PFUnA** | U | | 5.92 (L) | |
| **PFDoA** | U | | 5.92 (L) | |
| **PFTrDA** | U | | 5.92 (L) | |
| **PFTeDA** | U | | 5.92 (L) | |
| **PFBS** | | 40.4 | 5.92 (L) | 4:58 |
| **PFPeS** | | 47.1 | 5.92 (L) | 5:30 |
| **PFHxS** | | 132 | 5.92 (L) | |
| **PFHpS** | | 35.6 | 5.92 (L) | 7:09 |
| **PFOS** | | 2580 | 5.92 (L) | |
| **PFNS** | U | | 5.92 (L) | |
| **PFDS** | U | | 5.92 (L) | |
| **PFDoS** | U | | 5.92 (L) | |
| **4:2 FTS** | U | | 23.7 (L) | |
| **6:2 FTS** | U | | 21.3 (L) | |
| **8:2 FTS** | U | | 23.7 (L) | |
| **PFOSA** | B | 23.1 | 5.92 (L) | |
| **N-MeFOSA** | U | | 6.81 (L) | |
| **N-EtFOSA** | U | | 14.8 (L) | |
| **MeFOSAA** | U | | 5.92 (L) | |
| **EtFOSAA** | | 15.1 | 5.92 (L) | |
| **N-MeFOSE** | U | | 59.2 (L) | |
| **N-EtFOSE** | U | | 44.4 (L) | |
| **HFPO-DA** | U | | 22.5 (L) | |
| **ADONA** | U | | 23.7 (L) | |
| **9Cl-PF3ONS** | U | | 23.7 (L) | |
| **11Cl-PF3OUdS** | U | | 23.7 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-12_Form1A_FC0L_212S67_SJ2759058.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 12:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-12 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0675 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:33:38 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 67** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.4 | 85.9 | 1:51 |
| **13C5-PFPeA** | | 20.0 | 19.5 | 97.4 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.29 | 92.9 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.99 | 89.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.33 | 83.3 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.16 | 83.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.43 | 88.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.13 | 82.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.77 | 75.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.29 | 65.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.16 | 91.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.11 | 91.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.92 | 99.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.1 | 90.3 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 19.5 | 97.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 23.2 | 116 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.91 | 89.1 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.80 | 78.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.70 | 77.0 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.4 | 96.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.8 | 99.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 84.3 | 84.3 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 84.0 | 84.0 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 28.6 | 71.5 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-12_Form2_FC0L_212S67_SJ2759058.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC20-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 11:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-13 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0699 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:46:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 68** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 324 | 22.9 (L) | 1:51 |
| **PFPeA** | | 47.1 | 11.5 (L) | 4:25 |
| **PFHxA** | | 95.7 | 5.72 (L) | 5:01 |
| **PFHpA** | | 120 | 5.72 (L) | 5:29 |
| **PFOA** | | 1050 | 5.72 (L) | |
| **PFNA** | J | 8.48 | 5.72 (L) | |
| **PFDA** | J | 8.64 | 5.72 (L) | 7:33 |
| **PFUnA** | U | | 5.72 (L) | |
| **PFDoA** | U | | 5.72 (L) | |
| **PFTrDA** | U | | 5.72 (L) | |
| **PFTeDA** | U | | 5.72 (L) | |
| **PFBS** | | 33.7 | 5.72 (L) | 4:58 |
| **PFPeS** | | 39.8 | 5.72 (L) | 5:30 |
| **PFHxS** | | 108 | 5.72 (L) | |
| **PFHpS** | | 30.2 | 5.72 (L) | 7:08 |
| **PFOS** | | 2650 | 5.72 (L) | |
| **PFNS** | U | | 5.72 (L) | |
| **PFDS** | U | | 5.72 (L) | |
| **PFDoS** | U | | 5.72 (L) | |
| **4:2 FTS** | U | | 22.9 (L) | |
| **6:2 FTS** | U | | 20.6 (L) | |
| **8:2 FTS** | U | | 22.9 (L) | |
| **PFOSA** | B | 27.5 | 5.72 (L) | |
| **N-MeFOSA** | U | | 6.58 (L) | |
| **N-EtFOSA** | U | | 14.3 (L) | |
| **MeFOSAA** | U | | 5.72 (L) | |
| **EtFOSAA** | | 15.4 | 5.72 (L) | |
| **N-MeFOSE** | U | | 57.2 (L) | |
| **N-EtFOSE** | U | | 42.9 (L) | |
| **HFPO-DA** | U | | 21.8 (L) | |
| **ADONA** | U | | 22.9 (L) | |
| **9Cl-PF3ONS** | U | | 22.9 (L) | |
| **11Cl-PF3OUdS** | U | | 22.9 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-13_Form1A_FC0L_212S68_SJ2759059.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC20-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 11:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-13 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.0699 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 07:46:35 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 68** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.7 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 96.2 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.26 | 92.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.60 | 86.0 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.36 | 83.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.09 | 81.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.47 | 89.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.12 | 82.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.60 | 72.0 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.37 | 93.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.17 | 91.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.85 | 98.5 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.8 | 89.2 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.8 | 94.0 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.1 | 110 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.87 | 88.7 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 7.16 | 71.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.40 | 74.0 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.2 | 96.1 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.4 | 96.9 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 83.1 | 83.1 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 83.7 | 83.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 38.5 | 96.4 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-13_Form2_FC0L_212S68_SJ2759059.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-14 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.546 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:36:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 58** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 228 | 2.93 (L) | 1:50 |
| **PFPeA** | | 30.6 | 1.47 (L) | 4:25 |
| **PFHxA** | | 63.4 | 0.733 (L) | 5:01 |
| **PFHpA** | | 78.2 | 0.733 (L) | 5:28 |
| **PFOA** | | 681 | 0.733 (L) | |
| **PFNA** | | 4.80 | 0.733 (L) | |
| **PFDA** | | 3.82 | 0.733 (L) | 7:33 |
| **PFUnA** | U | | 0.733 (L) | |
| **PFDoA** | U | | 0.733 (L) | |
| **PFTrDA** | U | | 0.733 (L) | |
| **PFTeDA** | U | | 0.733 (L) | |
| **PFBS** | | 22.3 | 0.733 (L) | 4:58 |
| **PFPeS** | | 27.7 | 0.733 (L) | 5:30 |
| **PFHxS** | | 73.8 | 0.733 (L) | |
| **PFHpS** | | 22.3 | 0.733 (L) | 7:09 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.733 (L) | |
| **PFDS** | U | | 0.733 (L) | |
| **PFDoS** | U | | 0.733 (L) | |
| **4:2 FTS** | U | | 2.93 (L) | |
| **6:2 FTS** | U | | 2.64 (L) | |
| **8:2 FTS** | U | | 2.93 (L) | |
| **PFOSA** | | 11.7 | 0.733 (L) | |
| **N-MeFOSA** | U | | 0.843 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.733 (L) | |
| **EtFOSAA** | | 8.61 | 0.733 (L) | |
| **N-MeFOSE** | U | | 7.33 (L) | |
| **N-EtFOSE** | U | | 5.49 (L) | |
| **HFPO-DA** | U | | 2.78 (L) | |
| **ADONA** | U | | 2.93 (L) | |
| **9Cl-PF3ONS** | U | | 2.93 (L) | |
| **11Cl-PF3OUdS** | U | | 2.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-14 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.546 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:36:25 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 58** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 9.96 | 24.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 92.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.75 | 97.5 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.30 | 93.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.48 | 84.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.21 | 84.2 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.2 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.43 | 88.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.25 | 85.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.32 | 66.4 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.73 | 97.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.81 | 88.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.72 | 97.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 24.1 | 120 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 14.9 | 74.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.0 | 90.2 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 11.0 | 110 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 9.73 | 97.3 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 10.3 | 103 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 21.9 | 109 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 23.2 | 116 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 103 | 103 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 108 | 108 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 35.0 | 87.4 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-14_Form2_FC0L_212S58_SJ2759049.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33098-14 N |
| **Sample Receipt Date:** | 20-May-2020 | **Sample Size:** | 0.546 L |
| **Extraction Date:** | 26-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 02-Jul-2020 **Time:** 21:53:28 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_217 S: 68** |
| **Dilution Factor:** | 5 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_217 S: 62 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 1490 | 3.66 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-14 N |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.546 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 02-Jul-2020 **Time:** 21:53:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_217 S: 68** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_217 S: 62 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | D | 10.0 | 9.99 | 99.9 | 7:38 |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-14_Form2_FC0L_217S68_SJ2760003.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-15 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:49:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 59** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 78.4 | 2.93 (L) | 1:50 |
| **PFPeA** | | 5.73 | 1.46 (L) | 4:25 |
| **PFHxA** | | 4.76 | 0.732 (L) | 5:01 |
| **PFHpA** | | 1.99 | 0.732 (L) | 5:29 |
| **PFOA** | | 6.81 | 1.00 (S) | |
| **PFNA** | U | | 0.732 (L) | |
| **PFDA** | U | | 0.732 (L) | |
| **PFUnA** | U | | 0.732 (L) | |
| **PFDoA** | U | | 0.732 (L) | |
| **PFTrDA** | U | | 0.732 (L) | |
| **PFTeDA** | U | | 0.732 (L) | |
| **PFBS** | | 2.47 | 0.732 (L) | 4:58 |
| **PFPeS** | U | | 0.732 (L) | |
| **PFHxS** | | 2.99 | 0.732 (L) | |
| **PFHpS** | U | | 0.732 (L) | |
| **PFOS** | | 11.1 | 0.732 (L) | |
| **PFNS** | U | | 0.732 (L) | |
| **PFDS** | U | | 0.732 (L) | |
| **PFDoS** | U | | 0.732 (L) | |
| **4:2 FTS** | U | | 2.93 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.93 (L) | |
| **PFOSA** | U | | 0.732 (L) | |
| **N-MeFOSA** | U | | 0.841 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.732 (L) | |
| **EtFOSAA** | U | | 0.732 (L) | |
| **N-MeFOSE** | U | | 7.32 (L) | |
| **N-EtFOSE** | U | | 5.49 (L) | |
| **HFPO-DA** | U | | 2.78 (L) | |
| **ADONA** | U | | 2.93 (L) | |
| **9Cl-PF3ONS** | U | | 2.93 (L) | |
| **11Cl-PF3OUdS** | U | | 2.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-15_Form1A_FC0L_212S59_SJ2759050.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:15**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-15 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 05:49:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 59** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 6.99 | 17.5 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.1 | 90.4 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.28 | 92.8 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.22 | 92.2 | 5:29 |
| **13C8-PFOA** | | 10.0 | 8.78 | 87.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.29 | 85.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.84 | 96.7 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.57 | 91.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.42 | 88.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.26 | 65.2 | 8:50 |
| **13C3-PFBS** | | 10.0 | 10.0 | 100 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.19 | 91.9 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.33 | 93.3 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.5 | 118 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.9 | 89.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.8 | 98.9 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.25 | 92.5 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.79 | 77.9 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.23 | 82.3 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.8 | 93.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.2 | 91.0 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 84.8 | 84.8 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 89.4 | 89.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 28.8 | 72.1 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-15_Form2_FC0L_212S59_SJ2759050.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-16 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:02:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 60** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 170 | 2.98 (L) | 1:50 |
| **PFPeA** | | 20.7 | 1.49 (L) | 4:25 |
| **PFHxA** | | 39.6 | 0.745 (L) | 5:01 |
| **PFHpA** | | 45.3 | 0.745 (L) | 5:28 |
| **PFOA** | | 394 | 0.745 (L) | |
| **PFNA** | | 3.14 | 0.745 (L) | |
| **PFDA** | | 3.07 | 0.745 (L) | 7:33 |
| **PFUnA** | U | | 0.745 (L) | |
| **PFDoA** | U | | 0.745 (L) | |
| **PFTrDA** | U | | 0.745 (L) | |
| **PFTeDA** | U | | 0.745 (L) | |
| **PFBS** | | 14.1 | 0.745 (L) | 4:58 |
| **PFPeS** | | 16.9 | 0.745 (L) | 5:30 |
| **PFHxS** | | 46.5 | 0.745 (L) | |
| **PFHpS** | | 13.1 | 0.745 (L) | 7:09 |
| **PFOS** | | 962 | 0.968 (S) | |
| **PFNS** | U | | 0.745 (L) | |
| **PFDS** | U | | 0.745 (L) | |
| **PFDoS** | U | | 0.745 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.68 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | B | 7.91 | 0.745 (L) | |
| **N-MeFOSA** | U | | 0.856 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.745 (L) | |
| **EtFOSAA** | | 5.54 | 0.745 (L) | |
| **N-MeFOSE** | U | | 7.45 (L) | |
| **N-EtFOSE** | U | | 5.59 (L) | |
| **HFPO-DA** | U | | 2.83 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-16_Form1A_FC0L_212S60_SJ2759051.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 10:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-16 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.537 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:02:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 60** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 8.42 | 21.1 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 17.5 | 87.4 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.64 | 96.4 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.75 | 97.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.59 | 85.9 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.25 | 85.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.53 | 90.7 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.64 | 92.9 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.45 | 89.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.43 | 68.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.67 | 96.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.88 | 88.8 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.60 | 96.0 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 23.4 | 117 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.0 | 85.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.9 | 99.4 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 10.4 | 104 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 9.41 | 94.1 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 9.80 | 98.0 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.4 | 102 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 21.3 | 107 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 98.7 | 98.7 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 99.9 | 99.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 29.8 | 74.6 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-16_Form2_FC0L_212S60_SJ2759051.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 14:50**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-17 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:15:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 61** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 112 | 2.94 (L) | 1:51 |
| **PFPeA** | | 9.31 | 1.47 (L) | 4:25 |
| **PFHxA** | | 13.1 | 0.735 (L) | 5:01 |
| **PFHpA** | | 11.8 | 0.735 (L) | 5:28 |
| **PFOA** | | 97.9 | 0.735 (L) | |
| **PFNA** | J | 1.18 | 0.735 (L) | |
| **PFDA** | J | 1.08 | 0.735 (L) | 7:33 |
| **PFUnA** | U | | 0.735 (L) | |
| **PFDoA** | U | | 0.735 (L) | |
| **PFTrDA** | U | | 0.735 (L) | |
| **PFTeDA** | U | | 0.735 (L) | |
| **PFBS** | | 4.86 | 0.735 (L) | 4:58 |
| **PFPeS** | | 3.89 | 0.735 (L) | 5:30 |
| **PFHxS** | | 11.8 | 0.735 (L) | |
| **PFHpS** | | 2.92 | 0.735 (L) | 7:09 |
| **PFOS** | | 249 | 0.735 (L) | |
| **PFNS** | U | | 0.735 (L) | |
| **PFDS** | U | | 0.735 (L) | |
| **PFDoS** | U | | 0.735 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.65 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | B | 1.95 | 0.735 (L) | |
| **N-MeFOSA** | U | | 0.845 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.735 (L) | |
| **EtFOSAA** | J | 1.40 | 0.735 (L) | |
| **N-MeFOSE** | U | | 7.35 (L) | |
| **N-EtFOSE** | U | | 5.51 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-17_Form1A_FC0L_212S61_SJ2759052.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP19-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 14:50**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-17 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.544 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:15:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 61** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 6.17 | 15.4 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 17.8 | 89.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.65 | 96.5 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.67 | 86.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.27 | 85.4 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.1 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.51 | 90.3 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.09 | 81.7 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.21 | 64.2 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.58 | 95.8 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.90 | 89.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 22.7 | 114 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.9 | 94.7 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.52 | 95.2 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.11 | 81.1 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.46 | 84.6 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.7 | 104 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.2 | 101 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.8 | 87.8 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 85.8 | 85.8 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 30.4 | 76.0 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-17_Form2_FC0L_212S61_SJ2759052.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 14:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-18 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:28:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 62** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 95.2 | 3.00 (L) | 1:51 |
| **PFPeA** | | 6.37 | 1.50 (L) | 4:25 |
| **PFHxA** | | 7.66 | 0.750 (L) | 5:01 |
| **PFHpA** | | 5.90 | 0.750 (L) | 5:29 |
| **PFOA** | | 51.3 | 0.750 (L) | |
| **PFNA** | J | 0.873 | 0.750 (L) | |
| **PFDA** | J | 1.05 | 0.750 (L) | 7:33 |
| **PFUnA** | U | | 0.750 (L) | |
| **PFDoA** | U | | 0.750 (L) | |
| **PFTrDA** | U | | 0.750 (L) | |
| **PFTeDA** | U | | 0.750 (L) | |
| **PFBS** | | 4.14 | 0.750 (L) | 4:58 |
| **PFPeS** | | 2.70 | 0.750 (L) | 5:30 |
| **PFHxS** | | 7.98 | 0.750 (L) | |
| **PFHpS** | | 1.64 | 0.750 (L) | 7:09 |
| **PFOS** | | 193 | 0.750 (L) | |
| **PFNS** | U | | 0.750 (L) | |
| **PFDS** | U | | 0.750 (L) | |
| **PFDoS** | U | | 0.750 (L) | |
| **4:2 FTS** | U | | 3.00 (L) | |
| **6:2 FTS** | U | | 2.70 (L) | |
| **8:2 FTS** | U | | 3.00 (L) | |
| **PFOSA** | B J | 0.898 | 0.750 (L) | |
| **N-MeFOSA** | U | | 0.863 (L) | |
| **N-EtFOSA** | U | | 1.88 (L) | |
| **MeFOSAA** | U | | 0.750 (L) | |
| **EtFOSAA** | U | | 0.750 (L) | |
| **N-MeFOSE** | U | | 7.50 (L) | |
| **N-EtFOSE** | U | | 5.63 (L) | |
| **HFPO-DA** | U | | 2.85 (L) | |
| **ADONA** | U | | 3.00 (L) | |
| **9Cl-PF3ONS** | U | | 3.00 (L) | |
| **11Cl-PF3OUdS** | U | | 3.00 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-18_Form1A_FC0L_212S62_SJ2759053.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP20-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 14:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-18 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.533 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:28:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 62** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.6 | 88.9 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.7 | 98.5 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.84 | 98.4 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.34 | 93.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.78 | 87.8 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.49 | 89.7 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.50 | 89.9 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.53 | 90.7 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.09 | 81.7 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.59 | 71.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.74 | 97.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.12 | 91.2 | 6:17 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 21.4 | 107 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.7 | 93.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.7 | 104 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 9.66 | 96.6 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.36 | 83.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.63 | 86.3 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.4 | 102 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.2 | 101 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 93.1 | 93.1 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 92.9 | 92.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 31.3 | 78.2 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-18_Form2_FC0L_212S62_SJ2759053.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 15:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33098-19 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.546 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:41:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 63** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 285 | 2.93 (L) | 1:50 |
| **PFPeA** | | 9.12 | 1.47 (L) | 4:25 |
| **PFHxA** | | 11.7 | 0.733 (L) | 5:01 |
| **PFHpA** | | 8.59 | 0.733 (L) | 5:28 |
| **PFOA** | | 77.8 | 0.733 (L) | |
| **PFNA** | J | 0.869 | 0.733 (L) | |
| **PFDA** | U | | 0.733 (L) | |
| **PFUnA** | U | | 0.733 (L) | |
| **PFDoA** | U | | 0.733 (L) | |
| **PFTrDA** | U | | 0.733 (L) | |
| **PFTeDA** | U | | 0.733 (L) | |
| **PFBS** | | 3.42 | 0.733 (L) | 4:58 |
| **PFPeS** | | 2.81 | 0.733 (L) | 5:30 |
| **PFHxS** | | 8.72 | 0.733 (L) | |
| **PFHpS** | | 1.55 | 0.733 (L) | 7:08 |
| **PFOS** | | 135 | 0.733 (L) | |
| **PFNS** | U | | 0.733 (L) | |
| **PFDS** | U | | 0.733 (L) | |
| **PFDoS** | U | | 0.733 (L) | |
| **4:2 FTS** | U | | 2.93 (L) | |
| **6:2 FTS** | U | | 2.64 (L) | |
| **8:2 FTS** | U | | 2.93 (L) | |
| **PFOSA** | U | | 0.733 (L) | |
| **N-MeFOSA** | U | | 0.843 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.733 (L) | |
| **EtFOSAA** | U | | 0.733 (L) | |
| **N-MeFOSE** | U | | 7.33 (L) | |
| **N-EtFOSE** | U | | 5.50 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.93 (L) | |
| **9Cl-PF3ONS** | U | | 2.93 (L) | |
| **11Cl-PF3OUdS** | U | | 2.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-19_Form1A_FC0L_212S63_SJ2759054.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP16-WAT-BULK-01-051820**
**Sample Collection:**
**18-May-2020 15:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-19 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.546 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:41:34 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 63** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 6.05 | 15.1 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.4 | 97.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.73 | 97.3 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.27 | 92.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.97 | 89.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.15 | 83.0 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.45 | 89.0 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.56 | 91.2 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.21 | 84.2 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.04 | 60.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.54 | 95.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.27 | 92.7 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.88 | 98.8 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.8 | 104 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 17.8 | 89.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.4 | 107 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 9.53 | 95.3 | 8:41 |
| **D3-N-MeFOSA** | | 10.0 | 8.28 | 82.8 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.04 | 80.4 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.2 | 96.1 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.2 | 101 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 87.8 | 87.8 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 86.5 | 86.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 31.0 | 77.4 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-19_Form2_FC0L_212S63_SJ2759054.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP18-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 14:10**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-20 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:54:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 64** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 59.6 | 2.94 (L) | 1:50 |
| **PFPeA** | | 5.99 | 1.47 (L) | 4:25 |
| **PFHxA** | | 10.9 | 0.734 (L) | 5:01 |
| **PFHpA** | | 12.4 | 0.734 (L) | 5:28 |
| **PFOA** | | 111 | 0.734 (L) | |
| **PFNA** | J | 1.40 | 0.734 (L) | |
| **PFDA** | J | 1.00 | 0.734 (L) | 7:33 |
| **PFUnA** | U | | 0.734 (L) | |
| **PFDoA** | U | | 0.734 (L) | |
| **PFTrDA** | U | | 0.734 (L) | |
| **PFTeDA** | U | | 0.734 (L) | |
| **PFBS** | | 3.79 | 0.734 (L) | 4:58 |
| **PFPeS** | | 3.69 | 0.734 (L) | 5:30 |
| **PFHxS** | | 12.3 | 0.734 (L) | |
| **PFHpS** | | 2.90 | 0.734 (L) | 7:09 |
| **PFOS** | | 244 | 0.734 (L) | |
| **PFNS** | U | | 0.734 (L) | |
| **PFDS** | U | | 0.734 (L) | |
| **PFDoS** | U | | 0.734 (L) | |
| **4:2 FTS** | U | | 2.94 (L) | |
| **6:2 FTS** | U | | 2.64 (L) | |
| **8:2 FTS** | U | | 2.94 (L) | |
| **PFOSA** | B J | 1.07 | 0.734 (L) | |
| **N-MeFOSA** | U | | 0.844 (L) | |
| **N-EtFOSA** | U | | 1.84 (L) | |
| **MeFOSAA** | U | | 0.734 (L) | |
| **EtFOSAA** | U | | 0.734 (L) | |
| **N-MeFOSE** | U | | 7.34 (L) | |
| **N-EtFOSE** | U | | 5.51 (L) | |
| **HFPO-DA** | U | | 2.79 (L) | |
| **ADONA** | U | | 2.94 (L) | |
| **9Cl-PF3ONS** | U | | 2.94 (L) | |
| **11Cl-PF3OUdS** | U | | 2.94 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-20_Form1A_FC0L_212S64_SJ2759055.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EP18-WAT-BULK-01-051220**
**Sample Collection:**
**12-May-2020 14:10**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33098-20 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.545 L |
| **Sample Receipt Date:** | 20-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 06:54:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 64** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 5.77 | 14.4 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.9 | 94.6 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.39 | 93.9 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.56 | 95.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.77 | 87.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.35 | 86.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.66 | 93.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.43 | 88.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.16 | 83.3 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.23 | 64.5 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.32 | 93.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.04 | 90.4 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.47 | 94.7 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 20.3 | 101 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 18.8 | 93.8 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.6 | 103 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.57 | 85.7 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.36 | 83.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.31 | 83.1 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.4 | 96.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.9 | 99.6 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 81.7 | 81.7 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 80.9 | 80.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 36.5 | 91.2 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33098-20_Form2_FC0L_212S64_SJ2759055.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | WG72614-101 |
| **Sample Receipt Date:** | N/A | **Sample Size:** | 0.500 L |
| **Extraction Date:** | 26-Jun-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:26:31 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_212 S: 48** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | J | 0.889 | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72614-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:26:31 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_212 S: 48** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.5 | 86.3 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.7 | 98.4 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.45 | 94.5 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.33 | 93.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.76 | 87.6 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.43 | 88.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.47 | 89.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.59 | 91.8 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.12 | 82.4 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.75 | 74.9 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.41 | 94.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.91 | 89.1 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.69 | 96.9 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.8 | 94.2 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 20.0 | 100 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.9 | 114 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.43 | 84.3 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.65 | 66.5 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.61 | 66.1 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 18.7 | 93.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.0 | 95.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 84.7 | 84.7 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 84.4 | 84.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 38.9 | 97.2 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72614-101_Form2_FC0L_212S48_SJ2759039.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72614-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 02:47:24 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_212 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 38.3 | 95.7 | 1:50 |
| **PFPeA** | | 20.0 | 18.8 | 94.0 | 4:25 |
| **PFHxA** | | 10.0 | 9.13 | 91.3 | 5:01 |
| **PFHpA** | | 10.0 | 8.94 | 89.4 | 5:29 |
| **PFOA** | | 10.0 | 9.14 | 91.4 | |
| **PFNA** | | 10.0 | 9.48 | 94.8 | |
| **PFDA** | | 10.0 | 9.17 | 91.7 | 7:33 |
| **PFUnA** | | 10.0 | 9.06 | 90.6 | 7:52 |
| **PFDoA** | | 10.0 | 9.29 | 92.9 | 8:08 |
| **PFTrDA** | | 10.0 | 8.78 | 87.8 | 8:26 |
| **PFTeDA** | | 10.0 | 9.77 | 97.7 | 8:50 |
| **PFBS** | | 10.0 | 9.11 | 91.1 | 4:58 |
| **PFPeS** | | 10.0 | 10.3 | 103 | 5:30 |
| **PFHxS** | | 10.0 | 9.42 | 94.2 | |
| **PFHpS** | | 10.0 | 9.64 | 96.4 | 7:09 |
| **PFOS** | | 10.0 | 8.75 | 87.5 | |
| **PFNS** | | 10.0 | 8.59 | 85.9 | 7:57 |
| **PFDS** | | 10.0 | 9.08 | 90.8 | 8:14 |
| **PFDoS** | | 10.0 | 8.91 | 89.1 | 9:00 |
| **4:2 FTS** | | 40.0 | 41.2 | 103 | 4:54 |
| **6:2 FTS** | | 36.1 | 33.2 | 92.1 | 5:53 |
| **8:2 FTS** | | 40.0 | 39.3 | 98.3 | 7:23 |
| **PFOSA** | | 10.0 | 10.0 | 100 | |
| **N-MeFOSA** | | 11.5 | 12.3 | 107 | |
| **N-EtFOSA** | | 25.0 | 23.3 | 93.1 | |
| **MeFOSAA** | | 10.0 | 9.06 | 90.6 | |
| **EtFOSAA** | | 10.0 | 9.36 | 93.6 | |
| **N-MeFOSE** | | 100 | 99.2 | 99.2 | |
| **N-EtFOSE** | | 75.0 | 73.4 | 97.9 | |
| **HFPO-DA** | | 38.0 | 45.5 | 120 | 5:10 |
| **ADONA** | N | 40.0 | 48.5 | 121 | 5:41 |
| **9Cl-PF3ONS** | N | 40.0 | 49.2 | 123 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 45.9 | 115 | 8:27 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72614-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 02:47:24 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_212 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.2 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 19.5 | 97.6 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.76 | 97.6 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.33 | 93.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.87 | 88.7 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.20 | 83.9 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.87 | 97.5 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.42 | 88.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.33 | 86.5 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.89 | 77.8 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.93 | 99.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.20 | 92.0 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.71 | 97.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 91.1 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 20.1 | 100 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.5 | 113 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.84 | 88.4 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.93 | 69.3 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.32 | 73.2 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 20.0 | 100 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 19.6 | 98.0 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 85.9 | 85.9 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 87.2 | 87.2 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 31.1 | 77.7 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFC_FC_LC_PFAS_WG72614-102_Form8B_SJ2759032.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72614-103 (DUP WG72614-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:00:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_212 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.2 | 97.9 | 1:51 |
| **PFPeA** | | 20.0 | 19.5 | 97.6 | 4:25 |
| **PFHxA** | | 10.0 | 9.86 | 98.6 | 5:01 |
| **PFHpA** | | 10.0 | 9.90 | 99.0 | 5:29 |
| **PFOA** | | 10.0 | 9.37 | 93.7 | |
| **PFNA** | | 10.0 | 9.78 | 97.8 | |
| **PFDA** | | 10.0 | 9.31 | 93.1 | 7:33 |
| **PFUnA** | | 10.0 | 9.30 | 93.0 | 7:52 |
| **PFDoA** | | 10.0 | 9.68 | 96.8 | 8:08 |
| **PFTrDA** | | 10.0 | 9.27 | 92.7 | 8:26 |
| **PFTeDA** | | 10.0 | 10.5 | 105 | 8:50 |
| **PFBS** | | 10.0 | 9.66 | 96.6 | 4:58 |
| **PFPeS** | | 10.0 | 10.7 | 107 | 5:30 |
| **PFHxS** | | 10.0 | 9.73 | 97.3 | |
| **PFHpS** | | 10.0 | 9.91 | 99.1 | 7:09 |
| **PFOS** | | 10.0 | 10.3 | 103 | |
| **PFNS** | | 10.0 | 10.3 | 103 | 7:57 |
| **PFDS** | | 10.0 | 9.27 | 92.7 | 8:14 |
| **PFDoS** | | 10.0 | 9.28 | 92.8 | 9:00 |
| **4:2 FTS** | | 40.0 | 42.5 | 106 | 4:54 |
| **6:2 FTS** | | 36.1 | 35.0 | 97.0 | 5:53 |
| **8:2 FTS** | | 40.0 | 40.5 | 101 | 7:23 |
| **PFOSA** | | 10.0 | 9.60 | 96.0 | |
| **N-MeFOSA** | | 11.5 | 12.4 | 108 | |
| **N-EtFOSA** | | 25.0 | 22.3 | 89.3 | |
| **MeFOSAA** | | 10.0 | 9.28 | 92.8 | |
| **EtFOSAA** | | 10.0 | 10.3 | 103 | |
| **N-MeFOSE** | | 100 | 101 | 101 | |
| **N-EtFOSE** | | 75.0 | 77.4 | 103 | |
| **HFPO-DA** | | 38.0 | 35.0 | 92.1 | 5:10 |
| **ADONA** | | 40.0 | 40.7 | 102 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 42.5 | 106 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 39.8 | 99.4 | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72614-103_Form8A_SJ2759035.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72614-103 (DUP WG72614-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 26-Jun-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 30-Jun-2020 **Time:** 03:00:29 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_212 S: 46** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_212 S: 48 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_212 S: 42 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.0 | 87.6 | 1:50 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 94.1 | 4:25 |
| **13C5-PFHxA** | | 10.0 | 9.19 | 91.9 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 9.42 | 94.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.05 | 90.5 | 6:11 |
| **13C9-PFNA** | | 5.00 | 4.27 | 85.5 | 7:02 |
| **13C6-PFDA** | | 5.00 | 4.81 | 96.3 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.50 | 90.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.43 | 88.6 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.93 | 78.7 | 8:50 |
| **13C3-PFBS** | | 10.0 | 9.85 | 98.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.93 | 89.3 | 6:17 |
| **13C8-PFOS** | | 10.0 | 9.16 | 91.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.3 | 91.3 | 4:54 |
| **13C2-6:2 FTS** | | 20.0 | 19.5 | 97.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.2 | 106 | 7:23 |
| **13C8-PFOSA** | | 10.0 | 8.58 | 85.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.57 | 65.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.96 | 69.6 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 19.4 | 97.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.3 | 91.6 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 80.4 | 80.4 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 80.5 | 80.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 35.6 | 88.9 | 5:10 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72614-102 (A) LAB FLAG [1] | WG72614-102 (A) CONC. FOUND | WG72614-103 LAB FLAG [1] | WG72614-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 38.3 | | 39.2 | 38.7 | 2.26 |
| **PFPeA** | | 18.8 | | 19.5 | 19.2 | 3.79 |
| **PFHxA** | | 9.13 | | 9.86 | 9.49 | 7.70 |
| **PFHpA** | | 8.94 | | 9.90 | 9.42 | 10.1 |
| **PFOA** | | 9.14 | | 9.37 | 9.26 | 2.48 |
| **PFNA** | | 9.48 | | 9.78 | 9.63 | 3.15 |
| **PFDA** | | 9.17 | | 9.31 | 9.24 | 1.49 |
| **PFUnA** | | 9.06 | | 9.30 | 9.18 | 2.59 |
| **PFDoA** | | 9.29 | | 9.68 | 9.48 | 4.06 |
| **PFTrDA** | | 8.78 | | 9.27 | 9.02 | 5.50 |
| **PFTeDA** | | 9.77 | | 10.5 | 10.1 | 6.95 |
| **PFBS** | | 9.11 | | 9.66 | 9.39 | 5.83 |
| **PFPeS** | | 10.3 | | 10.7 | 10.5 | 3.42 |
| **PFHxS** | | 9.42 | | 9.73 | 9.58 | 3.21 |
| **PFHpS** | | 9.64 | | 9.91 | 9.77 | 2.82 |
| **PFOS** | | 8.75 | | 10.3 | 9.50 | 16.0 |
| **PFNS** | | 8.59 | | 10.3 | 9.43 | 17.9 |
| **PFDS** | | 9.08 | | 9.27 | 9.17 | 2.13 |
| **PFDoS** | | 8.91 | | 9.28 | 9.10 | 4.10 |
| **4:2 FTS** | | 41.2 | | 42.5 | 41.9 | 3.31 |
| **6:2 FTS** | | 33.2 | | 35.0 | 34.1 | 5.26 |
| **8:2 FTS** | | 39.3 | | 40.5 | 39.9 | 2.88 |
| **PFOSA** | | 10.0 | | 9.60 | 9.80 | 4.07 |
| **N-MeFOSA** | | 12.3 | | 12.4 | 12.3 | 0.691 |
| **N-EtFOSA** | | 23.3 | | 22.3 | 22.8 | 4.15 |
| **MeFOSAA** | | 9.06 | | 9.28 | 9.17 | 2.43 |
| **EtFOSAA** | | 9.36 | | 10.3 | 9.84 | 9.73 |
| **N-MeFOSE** | | 99.2 | | 101 | 100 | 1.98 |
| **N-EtFOSE** | | 73.4 | | 77.4 | 75.4 | 5.30 |
| **HFPO-DA** | | 45.5 | | 35.0 | 40.2 | 26.1 |
| **ADONA** | N | 48.5 | | 40.7 | 44.6 | 17.6 |
| **9Cl-PF3ONS** | N | 49.2 | | 42.5 | 45.8 | 14.6 |
| **11Cl-PF3OUdS** | | 45.9 | | 39.8 | 42.8 | 14.2 |

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Bryan Alonzo_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: RPD_FC_LC_PFAS-RPD_WG72614-103_WG72614-102_.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS87916.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3B.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3B_GS87916.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3D.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3D_GS87916.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 42 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 30-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:08:25 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:51 | 40.0 | 38.5 | 96.3 |
| **PFPeA** | | 4:25 | 20.0 | 19.3 | 96.3 |
| **PFHxA** | | 5:01 | 10.0 | 9.49 | 94.9 |
| **PFHpA** | | 5:29 | 10.0 | 9.57 | 95.7 |
| **PFOA** | | 6:12 | 10.0 | 8.78 | 87.8 |
| **PFNA** | | 7:02 | 10.0 | 9.75 | 97.5 |
| **PFDA** | | 7:33 | 10.0 | 9.53 | 95.3 |
| **PFUnA** | | 7:52 | 10.0 | 10.4 | 104 |
| **PFDoA** | | 8:08 | 10.0 | 11.0 | 110 |
| **PFTrDA** | | 8:26 | 10.0 | 10.3 | 103 |
| **PFTeDA** | | 8:50 | 10.0 | 9.99 | 99.9 |
| **PFBS** | | 4:58 | 10.0 | 9.68 | 96.8 |
| **PFPeS** | | 5:30 | 10.0 | 9.70 | 97.0 |
| **PFHxS** | | 6:17 | 10.0 | 9.53 | 95.3 |
| **PFHpS** | | 7:09 | 10.0 | 9.84 | 98.4 |
| **PFOS** | | 7:38 | 10.0 | 9.22 | 92.2 |
| **PFNS** | | 7:57 | 10.0 | 9.25 | 92.5 |
| **PFDS** | | 8:14 | 10.0 | 9.79 | 97.9 |
| **PFDoS** | | 9:00 | 10.0 | 9.59 | 95.9 |
| **4:2 FTS** | | 4:54 | 40.0 | 41.5 | 104 |
| **6:2 FTS** | | 5:54 | 36.0 | 33.4 | 92.8 |
| **8:2 FTS** | | 7:23 | 40.0 | 41.5 | 104 |
| **PFOSA** | | 8:42 | 10.0 | 9.63 | 96.3 |
| **N-MeFOSA** | | 10:09 | 11.5 | 12.0 | 104 |
| **N-EtFOSA** | | 10:26 | 25.0 | 23.7 | 94.8 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.4 | 104 |
| **EtFOSAA** | | 7:44 | 10.0 | 9.53 | 95.3 |
| **N-MeFOSE** | | 10:01 | 100 | 99.2 | 99.2 |
| **N-EtFOSE** | | 10:20 | 75.0 | 76.9 | 103 |
| **HFPO-DA** | | 5:10 | 40.0 | 40.2 | 101 |
| **ADONA** | | 5:41 | 40.0 | 43.0 | 108 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 45.8 | 115 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 45.4 | 114 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S42__Form4A_SJ2759027.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 42 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 30-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 02:08:25 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:51 | 40.0 | 39.7 | 99.3 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 21.9 | 110 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.3 | 103 |
| **13C4-PFHpA** | | 5:29 | 10.0 | 10.4 | 104 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.1 | 101 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.20 | 104 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.18 | 104 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.85 | 97.1 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 4.93 | 98.5 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.66 | 93.2 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.76 | 106 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.6 | 106 |
| **13C8-PFOS** | | 7:38 | 10.0 | 9.90 | 99.0 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 20.3 | 102 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 21.9 | 110 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 22.2 | 111 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 9.64 | 96.4 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 9.88 | 98.8 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.0 | 100 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 19.5 | 97.3 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 19.7 | 98.6 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 98.2 | 98.2 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 96.6 | 96.6 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 37.8 | 94.6 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S42__Form4B_SJ2759027.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 69 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 30-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 07:59:32 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:51 | 40.0 | 38.7 | 96.7 |
| **PFPeA** | | 4:25 | 20.0 | 19.3 | 96.5 |
| **PFHxA** | | 5:01 | 10.0 | 9.59 | 95.9 |
| **PFHpA** | | 5:28 | 10.0 | 8.97 | 89.7 |
| **PFOA** | | 6:11 | 10.0 | 9.23 | 92.3 |
| **PFNA** | | 7:02 | 10.0 | 9.53 | 95.3 |
| **PFDA** | | 7:33 | 10.0 | 9.21 | 92.1 |
| **PFUnA** | | 7:52 | 10.0 | 9.47 | 94.7 |
| **PFDoA** | | 8:08 | 10.0 | 9.52 | 95.2 |
| **PFTrDA** | | 8:26 | 10.0 | 9.42 | 94.2 |
| **PFTeDA** | | 8:50 | 10.0 | 9.48 | 94.8 |
| **PFBS** | | 4:58 | 10.0 | 9.41 | 94.1 |
| **PFPeS** | | 5:29 | 10.0 | 9.77 | 97.7 |
| **PFHxS** | | 6:17 | 10.0 | 9.49 | 94.9 |
| **PFHpS** | | 7:09 | 10.0 | 9.23 | 92.3 |
| **PFOS** | | 7:39 | 10.0 | 8.43 | 84.3 |
| **PFNS** | | 7:57 | 10.0 | 8.38 | 83.8 |
| **PFDS** | | 8:14 | 10.0 | 9.20 | 92.0 |
| **PFDoS** | | 9:00 | 10.0 | 8.89 | 88.9 |
| **4:2 FTS** | | 4:54 | 40.0 | 42.2 | 105 |
| **6:2 FTS** | | 5:53 | 36.0 | 32.9 | 91.3 |
| **8:2 FTS** | | 7:23 | 40.0 | 41.1 | 103 |
| **PFOSA** | | 8:41 | 10.0 | 9.95 | 99.5 |
| **N-MeFOSA** | | 10:08 | 11.5 | 11.6 | 101 |
| **N-EtFOSA** | | 10:26 | 25.0 | 22.9 | 91.5 |
| **MeFOSAA** | | 7:37 | 10.0 | 9.84 | 98.4 |
| **EtFOSAA** | | 7:45 | 10.0 | 8.71 | 87.1 |
| **N-MeFOSE** | | 10:01 | 100 | 99.8 | 99.8 |
| **N-EtFOSE** | | 10:19 | 75.0 | 77.6 | 103 |
| **HFPO-DA** | | 5:10 | 40.0 | 37.9 | 94.7 |
| **ADONA** | | 5:41 | 40.0 | 49.7 | 124 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 54.5 | 136 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 52.2 | 131 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S69__Form4A_SJ2759060.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_212 S: 69 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 30-Jun-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 07:59:32 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:50 | 40.0 | 39.7 | 99.1 |
| **13C5-PFPeA** | | 4:25 | 20.0 | 22.2 | 111 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.3 | 103 |
| **13C8-PFOA** | | 6:11 | 10.0 | 9.75 | 97.5 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.99 | 99.7 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.84 | 117 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.63 | 113 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.94 | 119 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 5.22 | 104 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.94 | 108 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.4 | 104 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 19.1 | 95.3 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 21.8 | 109 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 21.8 | 109 |
| **13C8-PFOSA** | | 8:41 | 10.0 | 9.10 | 91.0 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 10.2 | 102 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.2 | 102 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 20.4 | 102 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 20.9 | 104 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 97.7 | 97.7 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 96.5 | 96.5 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 32.6 | 81.5 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_212S69__Form4B_SJ2759060.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_217 S: 62 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:35:29 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:50 | 40.0 | 38.7 | 96.7 |
| **PFPeA** | | 4:25 | 20.0 | 19.4 | 97.2 |
| **PFHxA** | | 5:01 | 10.0 | 9.21 | 92.1 |
| **PFHpA** | | 5:28 | 10.0 | 9.01 | 90.1 |
| **PFOA** | | 6:11 | 10.0 | 8.52 | 85.2 |
| **PFNA** | | 7:02 | 10.0 | 9.44 | 94.4 |
| **PFDA** | | 7:33 | 10.0 | 9.39 | 93.9 |
| **PFUnA** | | 7:52 | 10.0 | 9.92 | 99.2 |
| **PFDoA** | | 8:07 | 10.0 | 9.82 | 98.2 |
| **PFTrDA** | | 8:26 | 10.0 | 9.56 | 95.6 |
| **PFTeDA** | | 8:50 | 10.0 | 10.5 | 105 |
| **PFBS** | | 4:58 | 10.0 | 9.53 | 95.3 |
| **PFPeS** | | 5:29 | 10.0 | 10.6 | 106 |
| **PFHxS** | | 6:17 | 10.0 | 9.63 | 96.3 |
| **PFHpS** | | 7:09 | 10.0 | 9.34 | 93.4 |
| **PFOS** | | 7:38 | 10.0 | 8.66 | 86.6 |
| **PFNS** | | 7:57 | 10.0 | 9.63 | 96.3 |
| **PFDS** | | 8:13 | 10.0 | 9.08 | 90.8 |
| **PFDoS** | | 9:00 | 10.0 | 9.61 | 96.1 |
| **4:2 FTS** | | 4:54 | 40.0 | 44.8 | 112 |
| **6:2 FTS** | | 5:53 | 36.0 | 34.0 | 94.5 |
| **8:2 FTS** | | 7:23 | 40.0 | 40.2 | 101 |
| **PFOSA** | | 8:42 | 10.0 | 8.65 | 86.5 |
| **N-MeFOSA** | | 10:08 | 11.5 | 10.7 | 93.0 |
| **N-EtFOSA** | | 10:26 | 25.0 | 18.2 | 72.8 |
| **MeFOSAA** | | 7:36 | 10.0 | 9.33 | 93.3 |
| **EtFOSAA** | | 7:44 | 10.0 | 8.89 | 88.9 |
| **N-MeFOSE** | | 10:01 | 100 | 87.4 | 87.4 |
| **N-EtFOSE** | | 10:19 | 75.0 | 53.6 | 71.5 |
| **HFPO-DA** | | 5:10 | 40.0 | 37.9 | 94.7 |
| **ADONA** | | 5:41 | 40.0 | 43.1 | 108 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 43.0 | 108 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 43.8 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_217S62__Form4A_SJ2759998.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_217 S: 62 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 20:35:29 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:50 | 40.0 | 39.7 | 99.2 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 22.0 | 110 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 10.8 | 108 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.6 | 106 |
| **13C8-PFOA** | | 6:11 | 10.0 | 10.3 | 103 |
| **13C9-PFNA** | | 7:02 | 5.00 | 4.92 | 98.3 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.37 | 107 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.75 | 95.0 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.15 | 103 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 4.70 | 94.0 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.99 | 109 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 9.98 | 99.8 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.5 | 105 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 18.8 | 94.1 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 21.7 | 108 |
| **13C2-8:2 FTS** | | 7:23 | 20.0 | 23.4 | 117 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 9.70 | 97.0 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 10.3 | 103 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.4 | 104 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 20.3 | 102 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 20.4 | 102 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 96.3 | 96.3 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 97.3 | 97.3 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 40.0 | 100 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_217S62__Form4B_SJ2759998.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_217 S: 70 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 22:19:23 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:50 | 40.0 | 38.4 | 96.0 |
| **PFPeA** | | 4:25 | 20.0 | 19.2 | 96.1 |
| **PFHxA** | | 5:01 | 10.0 | 9.26 | 92.6 |
| **PFHpA** | | 5:28 | 10.0 | 9.23 | 92.3 |
| **PFOA** | | 6:11 | 10.0 | 9.13 | 91.3 |
| **PFNA** | | 7:02 | 10.0 | 9.55 | 95.5 |
| **PFDA** | | 7:33 | 10.0 | 9.20 | 92.0 |
| **PFUnA** | | 7:52 | 10.0 | 10.1 | 101 |
| **PFDoA** | | 8:07 | 10.0 | 9.73 | 97.3 |
| **PFTrDA** | | 8:26 | 10.0 | 9.16 | 91.6 |
| **PFTeDA** | | 8:50 | 10.0 | 9.95 | 99.5 |
| **PFBS** | | 4:58 | 10.0 | 9.61 | 96.1 |
| **PFPeS** | | 5:29 | 10.0 | 10.2 | 102 |
| **PFHxS** | | 6:17 | 10.0 | 9.31 | 93.1 |
| **PFHpS** | | 7:08 | 10.0 | 9.07 | 90.7 |
| **PFOS** | | 7:38 | 10.0 | 8.57 | 85.7 |
| **PFNS** | | 7:57 | 10.0 | 9.90 | 99.0 |
| **PFDS** | | 8:13 | 10.0 | 9.03 | 90.3 |
| **PFDoS** | | 9:00 | 10.0 | 9.32 | 93.2 |
| **4:2 FTS** | | 4:54 | 40.0 | 43.2 | 108 |
| **6:2 FTS** | | 5:53 | 36.0 | 32.8 | 91.1 |
| **8:2 FTS** | | 7:22 | 40.0 | 39.6 | 99.1 |
| **PFOSA** | | 8:41 | 10.0 | 8.84 | 88.4 |
| **N-MeFOSA** | | 10:08 | 11.5 | 10.9 | 94.5 |
| **N-EtFOSA** | | 10:26 | 25.0 | 17.5 | 70.0 |
| **MeFOSAA** | | 7:36 | 10.0 | 8.90 | 89.0 |
| **EtFOSAA** | | 7:44 | 10.0 | 8.53 | 85.3 |
| **N-MeFOSE** | | 10:01 | 100 | 88.0 | 88.0 |
| **N-EtFOSE** | | 10:19 | 75.0 | 53.6 | 71.5 |
| **HFPO-DA** | | 5:10 | 40.0 | 39.6 | 99.0 |
| **ADONA** | | 5:41 | 40.0 | 39.8 | 99.5 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 40.0 | 100 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 41.7 | 104 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_217S70__Form4A_SJ2760005.html; Workgroup: WG72614; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_217 S: 70 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 02-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 22:19:23 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:50 | 40.0 | 39.6 | 98.9 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 20.5 | 103 |
| **13C5-PFHxA** | | 5:01 | 10.0 | 9.95 | 99.5 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.4 | 104 |
| **13C8-PFOA** | | 6:11 | 10.0 | 9.58 | 95.8 |
| **13C9-PFNA** | | 7:02 | 5.00 | 5.08 | 102 |
| **13C6-PFDA** | | 7:33 | 5.00 | 5.60 | 112 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.99 | 99.7 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.64 | 113 |
| **13C2-PFTeDA** | | 8:50 | 5.00 | 5.11 | 102 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.74 | 106 |
| **13C3-PFHxS** | | 6:17 | 10.0 | 10.1 | 101 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.9 | 109 |
| **13C2-4:2 FTS** | | 4:54 | 20.0 | 19.7 | 98.4 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 22.3 | 112 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 23.2 | 116 |
| **13C8-PFOSA** | | 8:41 | 10.0 | 9.86 | 98.6 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 10.5 | 105 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.7 | 107 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 21.7 | 108 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 21.4 | 107 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 103 | 103 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 101 | 101 |
| **13C3-HFPO-DA** | | 5:10 | 40.0 | 39.2 | 98.1 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bryan Alonzo_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 08-Jul-2020 12:44:19; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_217S70__Form4B_SJ2760005.html; Workgroup: WG72614; Design ID: 3769 ]

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | Y | | Y | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | Y | | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 1668 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

**Accreditation Scope**
SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | | |

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

## Accreditation Scope

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| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | |
| | PCB 98 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | | | | Y | Y | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | | | | | | | Y | Y | Y | Y | | | | | | Y | | Y | Y | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | Y | | | Y | Y | | Y | | Y | | | | Y | Y | Y |

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| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | ursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| Note ** | PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Legend**

| | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2017 Standard) |

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP Certificate ADE-1861

ilac-MRA

ilac-MRA

CALA Testing Accreditation No. A2637

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The SGS AXYS contact for these data is Dale Robinson.

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# PERFLUORINATED ORGANIC & FTS ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: P1007/60608807

### WORK ORDER #: 3000025335

**Contract: 4095**
**Data Package Identification: DPWG73047**

**Analysis WG72779**

## 28 July 2020

**MINNESOTA POLLUTION CONTROL AGENCY**
**AQUEOUS SAMPLES** **PER- AND POLYFLUOROALKYL SUBSTANCES ANALYSIS**
**SGS AXYS METHOD: MLA-110**

**4095:** L33068-1 to -4 and -6 to 20

**Project name: P1007/60608807**
**Work order number: 3000025335**

**28 July 2020**

## NARRATIVE

This narrative describes the analysis of nineteen aqueous samples for the determination of per- and polyfluoroalkyl organic compounds by ultra-high performance liquid chromatography/tandem mass spectrometry (UHPLC-MS/MS).

## SAMPLE RECEIPT AND STORAGE

The samples were received at SGS AXYS on the 13th of May, 2020. The temperature of the samples upon receipt ranged from 3.3˚C to 8.8˚C, exceeding the method recommended sample storage temperature of 0-4°C for some samples. The samples were all stored at -20˚C in the dark prior to extraction and analysis.

## SAMPLE EXTRACTION AND ANALYSIS

The field and QC samples were analyzed in one analysis batch designated as WG72779; the composition of the batch is shown on the Correlation Table included with this data package. The QC samples consisted of laboratory procedural blank, a laboratory generated reference sample referred to as an Ongoing Precision and Recovery (OPR) sample and duplicate OPR sample. The laboratory procedural blank, OPR and duplicate OPR samples were all prepared using Canadian Springs water as the matrix.

Sample extraction, instrumental analysis, and analyte quantification procedures were done in accordance with SGS AXYS Method MLA-110: ***Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids and Solvent Extracts by LC-MS/MS***. A method summary (MSU-110) of SGS AXYS Method MLA-110 is included with the data package.

Approximately 500 mL of each sample was accurately weighed, spiked with isotopically labeled quantification standards and extracted and cleaned up by solid phase extraction (SPE) using a disposable cartridge containing a weak anion exchange sorbent. After spiking each sample with labeled recovery (internal) standards, the extracts were analyzed by LC-MS/MS. Analyte concentrations were determined by isotope dilution/internal standard method, comparing the area of the quantification ion to that of the isotopically labeled standard.

The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (CS1) or the sample specific detection limit (SDL), whichever was greater.

## REPORTING CONVENTIONS

The SGS AXYS contract number assigned for internal tracking was 4095. The samples were assigned a unique laboratory identifier L33068-XX; where X is a numeral; all data reports reference this unique SGS AXYS ID plus the client sample identifier. To assist in locating data, a table correlating the SGS AXYS ID with the client sample numbers is included with this data package. The report forms were generated using Laboratory Information Management Systems (LIMS) software.

Any extra work required and performed after the initial instrumental analysis of the sample extract was given an extra “test suffix” code. The single letter code per extra work performed was added to the SGS AXYS sample ID as a suffix and combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

(A) = parent sample for a duplicate pair
N = dilution of the sample extract followed by instrumental analysis
R = repeat analysis using a fresh aliquot of the same sample

The laboratory qualifiers used to report results were as follows:

D = dilution data
E = exceeds calibrated linear range, see dilution data
H = concentration is estimated (information only value)
J = indicates an estimated value where the concentration of the analyte is less than the concentration at which test accuracy has been demonstrated (LOQ) but greater than the reporting limit (RDL)
U = identifies a compound that was not detected
V = surrogate recovery was not within method specifications
X = result reported separately

Results were reported with concentration units of nanograms per litre (ng/L). Concentration and detection limits were reported to three significant figures. Analysis results for each sample are provided on Analysis Report forms 1A and 2.

**QA/QC NOTES**

The samples and QC samples were analyzed in one analysis batch and carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples.

- Sample analyte concentrations are not blank corrected and should be evaluated with the laboratory procedural blank results considered.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, calibration verification, OPR, precision, laboratory procedural blank, and labeled compound recovery specifications were met with the following exceptions:

For some field samples, the percent recovery for the surrogate compound 13C4-PFBA was below 10% and less than half the lower SGS AXYS method criteria limit. The results for the related target analyte PFBA were flagged with an 'H' and reported for information only.

For some samples, the percent recoveries for some surrogate compounds were below both the client specific and SGS AXYS method criteria limit (50%) and were flagged with a 'V'. As the isotope dilution method of quantification produces data that is recovery corrected, these variances from method criteria were deemed to not affect the quantification of the target analytes. Percent surrogate recoveries are used as general method performance indicator only.

**ANALYTICAL DISCUSSION**

For some field samples, the results from the initial analysis for some target analytes were inconsistent and deemed unreliable when the original and diluted extract data was compared. As remedial action, all field samples from the initial analysis batch were scheduled for a repeat analysis. The final results for all field samples were reported from the repeat analysis data (indicated with the suffix 'R' following the SGS AXYS ID added).

**DATA PACKAGE**

This data package was assigned a unique data package identification workgroup: DPWG73047. This ID is shown on the front page of the data package. Included in the data package following this narrative report are the following documents:

- Method summary
- Sample 'Correlation Table'

- Sample receiving documentation
- Sample data reports (in order of SGS AXYS Sample ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**

*Andrew Porat* 28-Jul-2020

Signed: Andrew Porat, Data Validation Chemist | Date Signed

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**SGS AXYS Analytical Services Ltd.**

**SUMMARY OF SGS AXYS METHOD MLA-110 REV. 02 VER. 07**

# Analytical Procedure for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples, Solids, Tissues, AFFF Products, Blood/ Serums and Solvent Extracts by LC-MS/MS

This method describes the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid, biosolid, tissue, blood/serum, AFFF product samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labeled surrogate standards samples are extracted and cleaned up by Solid Phase Extraction (SPE). The extracts are then analyzed by liquid chromatography/mass spectrometry (LC-MS/MS). Final sample concentrations are determined by isotope dilution/internal standard quantification.

Typical reporting limits are shown below, for the method default sample sizes:

| Analyte groups | Aqueous sample | Extract [1] | Solid [2] | Biosolid [3] | Tissues [4] | AFFF Products[5] | Blood, Serum |
|---|---|---|---|---|---|---|---|
| Typical sample size | 0.5 L | 0.75 mL | 5 g | 2.5 g | 2.0 g | 0.02 g | 2 mL |
| Units | ng/L | ng/mL | ng/g | ng/g | ng/g | ng/g | ng/mL |
| Perfluoroalkyl carboxylates | 0.8-3.2 | 0.53-2.1 | 0.08-0.32 | 0.16-0.64 | 0.2-0.8 | 10-40 | 0.2-0.8 |
| Perfluoroalkyl sulfonates | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Fluorotelomer sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | 40 | 0.8 |
| Perfluorooctane sulfonamides | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamidoacetic acids | 0.8 | 0.53 | 0.08 | 0.16 | 0.2 | 10 | 0.2 |
| Perfluorooctane sulfonamide ethanols | 8 | 5.3 | 0.8 | 1.6 | 2.0 | 100 | 2.0 |
| Per- and polyfluoroether carboxylates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |
| Ether sulfonates | 3.2 | 2.1 | 0.32 | 0.64 | 0.8 | N/A | 0.8 |

[1] Detection limits for extract samples depend on the samples size processed. The reporting limits provided here are based on the typical extract sample size listed above.

[2] A maximum of 10 g wet, or 5 g dry, solid may be analyzed.

[3] A maximum of 5 g wet, or 0.5 g dry, biosolid may be analyzed.

[4] A maximum of 2 g of tissue may be analyzed.

[5] A maximum of 0.02 g of AFFF Product is analyzed. Reporting limits are based on the calibration A point. The method is not currently validated for ether carboxylates/sulfonates in AFFF samples. Only Class B aqueous film forming foams (AFFF) or alcohol-resistant AFFF (AR-AFFF) samples are part of this scope. All samples will be logged in under an “AQIP” (Aqueous Industrial Product) matrix code in LIMS. Other AFFF products such as fluoroprotein foams may be analyzed using this method but need special

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handling. See PFAS product manager for handling instructions. Consult product Safety Data Sheets (SDS) and other information before confirming. Log these samples into LIMS as a Q Product.

Refer to Appendix B for sample storage conditions.

## PFAS Target Analytes

### Perfluoroalkyl carboxylates

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

### Perfluoroalkyl sulfonates

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)

### Fluorotelomer sulfonates

1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS, 1H, 1H, 2H, 2H-perfluorohexane sulfonate)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS, 1H, 1H, 2H, 2H-perfluorooctane sulfonate)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS, 1H, 1H, 2H, 2H-perfluorodecane sulfonate)

### Perfluorooctane sulfonamides

Perfluorooctanesulfonamide (PFOSA) [1]
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)

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**Perfluorooctane sulfonamidoacetic acids**

N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA, N-Methylperfluoro-1-octanesulfonamidoacetate)
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA, N-Ethylperfluoro-1-octanesulfonamidoacetate)

**Perfluorooctane sulfonamidoethanols**

N-Methylperfluoro-1-octanesulfonamidoethanol (N-MeFOSE)

N-Ethylperfluoro-1-octanesulfonamidoethanol (N-EtFOSE)

**Ether carboxylates**

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionic acid (HFPO-DA, 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propionoate)
Decafluoro-3H-4,8-dioxanonoate (ADONA, DONA, Decafluoro-3H-4,8-dioxanonoic acid)

**Ether sulfonates**

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS, 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS, 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate)

[1] PFOSA also called FOSA

The carboxylic and sulfonic acid analyte concentrations can be reported as either the acid or the anion forms. The anion and corresponding acid forms and their CAS Registry Numbers are shown in Appendix A of this summary.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

Aqueous samples size may be up to 1000 mL for aqueous samples analyzed by this method, and up to 0.75 mL for extracts/solvents. Samples are stored in HDPE (high density polyethylene) containers. All samples are spiked with surrogate standards. Aqueous samples are extracted by solid phase extraction (SPE) using weak anion exchange cartridges; wash and elution procedures are chosen to meet various analysis requirements. Sample extracts are then treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Extract/solvent samples don't undergo solid phase extraction. The samples are spiked with surrogate and recovery standards, and analyzed by LC-MS/MS.

Solid and biosolid sample size may be up to 5 g dry weight for solid samples or up to 5 g wet weight (max. 0.5 g dry weight) for biosolid samples. After addition of isotopically labelled surrogate standards the sample is extracted by shaking three times with methanolic ammonium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) using disposable cartridges containing a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

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Tissue sample size may be up to 2 g. After addition of isotopically labelled surrogate standards the sample is extracted with methanolic potassium hydroxide solution, with acetonitrile, and finally with methanolic potassium hydroxide solution, each time collecting the supernatants. The supernatants are combined, treated with ultra pure carbon powder and evaporated to remove methanol. The resulting solution is diluted with water and cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluate is spiked with recovery standards and analyzed by LC-MS/MS.

All AFFF samples are pre-screened before analysis to determine the appropriate amount of sample to analyze. A suitable subsample is dissolved in water, spiked with surrogate standards and extracted by solid phase extraction (SPE). The extracts are treated with carbon powder, spiked with recovery standards and analyzed by LC-MS/MS.

Blood, Serum sample size may be up to 2 mL. After the addition of isotopically labelled surrogate standards the sample is extracted with 50% formic acid. The resulting solution is cleaned up by solid phase extraction (SPE) on a weak anion exchange sorbent. The eluent tubes are spiked with recovery standards and then eluent collected and analyzed by LC-MS/MS.

## 2.0 INSTRUMENTATION

Analysis of the sample extract is performed on a UPLC (ultrahigh performance liquid chromatography) reversed phase C18 column using a solvent gradient. The column is coupled to a triple quadrupole mass spectrometer run at unit mass resolution in the Multiple Reaction Monitoring (MRM) in negative electrospray ionization mode.

## 3.0 CALIBRATION

Initial calibration of the LC-MS/MS instrument is performed by the analysis of five or more calibration solutions. A mid-level calibration standard is analyzed to verify the initial calibration and injected after:

- at least every 12 hours.
- For DoD accredited work after every 10 client samples or every 12 hours, whichever occurs first, and at the end of the instrumental run sequence.

**Nominal Concentrations of Calibration Solutions (ng/mL)**

| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkyl carboxylates** | | | | | | | | |
| PFBA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| PFPeA | 0.1 | 0.2 | 0.4 | 1 | **5** | 25 | 125 | 500 |
| PFHxA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |


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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| PFOA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFUnA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTrDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFTeDA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluoroalkyl sulfonates** | | | | | | | | |
| PFBS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFPeS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHxS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFHpS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFOS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFNS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| PFDoS | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Flurorotelomer sulfonates** | | | | | | | | |
| 4:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 6:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 8:2 FTS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Perfluorooctane sulfonamides** | | | | | | | | |
| PFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-MeFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamidoacetic acids** | | | | | | | | |
| N-MeFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| N-EtFOSAA | 0.05 | 0.1 | 0.2 | 0.5 | **2.5** | 12.5 | 62.5 | 250 |
| | | | | | | | | |
| **Perfluorooctane sulfonamide ethanols** | | | | | | | | |
| N-MeFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |
| N-EtFOSE | 0.5 | 1 | 2 | 5 | **25** | 125 | 625 | 2500 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **Per- and polyfluoroether carboxylates** | | | | | | | | |
| HFPO-DA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| ADONA | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Ether sulfonates** | | | | | | | | |
| 9Cl-PF3ONS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| 11Cl-PF3OUdS | 0.2 | 0.4 | 0.8 | 2 | **10** | 50 | 250 | 1000 |
| | | | | | | | | |
| **Surrogate Standards** | | | | | | | | |
| $^{13}C_4$-PFBA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| $^{13}C_5$-PFPeA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_5$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFHpA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_9$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_6$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_7$-PFUnA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDoA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFTeDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| | | | | | | | | |
| $^{13}C_3$-PFBS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_3$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_8$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $^{13}C_2$-4:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-6:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-8:2 FTS | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| | | | | | | | | |
| $^{13}C_8$-PFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_3$-N-MeFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $D_5$-N-EtFOSA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| | | | | | | | | |
| $D_3$-N-MeFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $D_5$-N-EtFOSAA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |

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| | CAL A* | CAL B | CAL C | CAL D | CAL E (CAL-VER) | CAL F | CAL G | CAL H |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| $D_7$-N-MeFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| $D_9$-N-EtFOSE | 25 | 25 | 25 | 25 | **25** | 25 | 25 | 25 |
| | | | | | | | | |
| $^{13}C_3$-HFPO-DA | 10 | 10 | 10 | 10 | **10** | 10 | 10 | 10 |
| | | | | | | | | |
| **Recovery standards** | | | | | | | | |
| $^{13}C_3$-PFBA | 5 | 5 | 5 | 5 | **5** | 5 | 5 | 5 |
| $^{13}C_2$-PFHxA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOA | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_5$-PFNA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{13}C_2$-PFDA | 1.25 | 1.25 | 1.25 | 1.25 | **1.25** | 1.25 | 1.25 | 1.25 |
| $^{18}O_2$-PFHxS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |
| $^{13}C_4$-PFOS | 2.5 | 2.5 | 2.5 | 2.5 | **2.5** | 2.5 | 2.5 | 2.5 |

* CAL A is an Instrument Sensitivity Check. It may be used as an optional calibration level with prior approval, for all matrices.

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## 4.0 QUANTIFICATION PROCEDURES

### Calculations

Target compounds are quantified using the isotope dilution/internal standard method, comparing the area of the primary (quantifying) transition product ion of the target compound to that of the $^{13}C$-labelled or deuterium labeled standard and correcting for response factors. Mean relative response factors (RRF), determined from the multi-level initial calibration series are used to convert raw peak areas in sample chromatograms to final concentrations as follows:

$$\text{Concentrat ion of Target} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{RRF}}\right) \times \left(\frac{1}{\text{weight of sample}}\right)$$

$$\textit{where}\quad \text{RRF} = \left(\frac{\text{area of Target}}{\text{area of Qt Std}}\right) \times \left(\frac{\text{weight of Qt Std}}{\text{weight of Target}}\right)$$

*and the Qt Std is either the surrogate or the internal standard*

The isotopically labeled analog of an analyte (surrogate) is used for quantitation (Isotope Dilution Quantitation). If a labeled analog is not commercially available, a surrogate with chemical similarity and close retention time is used for quantitation (internal standard quantitation). Final target concentrations are recovery corrected by this method of quantification.

### 4.1 Reporting Limits

Sample Specific Detection Limits (SDL) are determined by converting the area equivalent to 3.0 times the estimated chromatographic noise height to a concentration in the same manner that target peak responses are converted to final concentrations. The SDL accounts for any effect of matrix on the detection system and for recovery achieved through the analytical work-up.

Results are reported to the greater of the SDL or the concentration equivalent to the lowest calibration standard analyzed.

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### Analytes, Transition Ions and Quantification References

| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| **Target analytes** | | | | | | |
| PFBA | 1.96 | 212.8 | 168.9 | n.a. | n.a. (weak confirmation ion) | $^{13}C_4$-PFBA |
| PFPeA | 4.18 | 263.0 | 219.0 | 68.9 | n.a. (weak confirmation ion) | $^{13}C_5$-PFPeA |
| PFHxA | 4.81 | 313.0 | 269.0 | 118.9 | 7.2 | $^{13}C_5$-PFHxA |
| PFHpA | 5.32 | 363.1 | 319.0 | 169.0 | 2.6 | $^{13}C_4$-PFHpA |
| PFOA | 6.16 | 413.0 | 369.0 | 169.0 | see Table 12 | $^{13}C_8$-PFOA |
| PFNA | 6.99 | 463.0 | 419.0 | 219.0 | see Table 12 | $^{13}C_9$-PFNA |
| PFDA | 7.47 | 512.9 | 469.0 | 219.0 | 3.6 | $^{13}C_6$-PFDA |
| PFUnA | 7.81 | 563.1 | 519.0 | 269.1 | 4.0 | $^{13}C_7$-PFUnA |
| PFDoA | 8.13 | 613.1 | 569.0 | 319.0 | 9.3 | $^{13}C_2$-PFDoA |
| PFTrDA | 8.53 | 663.0 | 619.0 | 168.9 | 5.4 | $^{13}C_2$-PFTeDA |
| PFTeDA | 8.96 | 713.1 | 669.0 | 168.9 | 4.2 | $^{13}C_2$-PFTeDA |
| PFBS | 4.79 | 298.7 | 79.9 | 98.8 | 2.0 | $^{13}C_3$-PFBS [5] |
| PFPeS | 5.38 | 349.1 | 79.9 | 98.9 | 1.8 | $^{13}C_3$-PFHxS |
| PFHxS | 6.31 | 398.7 | 79.9 | 98.9 | see Table 12 | $^{13}C_3$-PFHxS |
| PFHpS | 7.11 | 449.0 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFOS | 7.59 | 498.9 | 79.9 | 98.8 | see Table 12 | $^{13}C_8$-PFOS |
| PFNS | 7.92 | 548.8 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| PFDS | 8.28 | 599.0 | 79.9 | 98.8 | 1.8 | $^{13}C_8$-PFOS |
| PFDoS | 9.14 | 699.1 | 79.9 | 98.8 | 1.7 | $^{13}C_8$-PFOS |
| 4:2 FTS | 4.67 | 327.1 | 307.0 | 80.9 | 1.3 | $^{13}C_2$-4:2 FTS |
| 6:2 FTS | 5.81 | 427.1 | 407.0 | 80.9 | 1.5 | $^{13}C_2$-6:2 FTS |
| 8:2 FTS | 7.28 | 527.1 | 507.0 | 80.8 | 1.9 | $^{13}C_2$-8:2 FTS |
| PFOSA | 8.41 | 498.1 | 77.9 | 478.0 | n.a. | $^{13}C_8$-PFOSA |

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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| N-MeFOSA | 9.70 | 511.9 | 219.0 | 169.0 | see Table 12 | $D_3$-N-MeFOSA |
| N-EtFOSA | 9.94 | 526.0 | 219.0 | 169.0 | see Table 12 | $D_5$-N-EtFOSA |
| N-MeFOSAA | 7.51 | 570.1 | 419.0 | 483.0 | see Table 12 | $D_3$-N-MeFOSAA |
| N-EtFOSAA | 7.65 | 584.2 | 419.1 | 526.0 | see Table 12 | $D_5$-N-EtFOSAA |
| N-MeFOSE | 9.57 | 616.1 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_7$-N-MeFOSE |
| N-EtFOSE | 9.85 | 630.0 | 58.9 | n.a. | n.a. (weak confirmation ion) | $D_9$-N-EtFOSE |
| HFPO-DA | 4.97 | 284.9 | 168.9 | 184.9 | 2.1 | $^{13}C_3$-HFPO-DA |
| ADONA | 5.79 | 376.9 | 250.9 | 84.8 | 2.6 | $^{13}C_3$-HFPO-DA |
| 9Cl-PF3ONS | 7.82 | 530.8 | 351.0 | 532.8 → 353.0 | 3.0 | $^{13}C_3$-HFPO-DA |
| 11Cl-PF3OUdS | 8.62 | 630.9 | 450.9 | 632.9 → 452.9 | 3.2 | $^{13}C_3$-HFPO-DA |
| **Surrogate standards** | | | | | | |
| $^{13}C_4$-PFBA | 1.95 | 216.8 | 171.9 | n.a. | | $^{13}C_3$-PFBA |
| $^{13}C_5$-PFPeA | 4.18 | 268.3 | 223.0 | n.a. | | $^{13}C_2$-PFHxA |
| $^{13}C_5$-PFHxA | 4.80 | 318.0 | 273.0 | 120.3 | | $^{13}C_2$-PFHxA |
| $^{13}C_4$-PFHpA | 5.32 | 367.1 | 322.0 | n.a. | | $^{13}C_4$-PFOA ($^{13}C_2$-PFHxA for AFFF products) |
| $^{13}C_8$-PFOA | 6.16 | 421.1 | 376.0 | n.a. | | $^{13}C_4$-PFOA |
| $^{13}C_9$-PFNA | 6.99 | 472.1 | 427.0 | n.a. | | $^{13}C_5$-PFNA |
| $^{13}C_6$-PFDA | 7.47 | 519.1 | 474.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_7$-PFUnA | 7.81 | 570.0 | 525.1 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFDoA | 8.13 | 615.1 | 570.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_2$-PFTeDA | 8.96 | 715.1 | 670.0 | n.a. | | $^{13}C_2$-PFDA |
| $^{13}C_3$-PFBS | 4.78 | 302.1 | 79.9 | 98.9 | | $^{18}O_2$-PFHxS |
| $^{13}C_3$-PFHxS | 6.30 | 402.1 | 79.9 | 98.8 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOS | 7.59 | 507.1 | 79.9 | 98.9 | | $^{13}C_4$-PFOS |


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| | Typical Retention Time [1] | Precursor Ion m/z | Quantification Product Ion m/z[4] | Confirmation Product Ion m/z [2,4] | Typical Ion Ratio Quant./Conf.[3] | Quantified using |
|---|---|---|---|---|---|---|
| $^{13}C_2$-4:2 FTS | 4.67 | 329.1 | 80.9 | 309.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-6:2 FTS | 5.82 | 429.1 | 80.9 | 409.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_2$-8:2 FTS | 7.28 | 529.1 | 80.9 | 509.0 | | $^{18}O_2$-PFHxS |
| $^{13}C_8$-PFOSA | 8.41 | 506.1 | 77.8 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSA | 9.70 | 515.0 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSA | 9.94 | 531.1 | 219.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_3$-N-MeFOSAA | 7.51 | 573.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_5$-N-EtFOSAA | 7.65 | 589.2 | 419.0 | n.a. | | $^{13}C_4$-PFOS |
| $D_7$-N-MeFOSE | 9.56 | 623.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $D_9$-N-EtFOSE | 9.83 | 639.2 | 58.9 | n.a. | | $^{13}C_4$-PFOS |
| $^{13}C_3$-HFPO-DA | 4.97 | 286.9 | 168.9 | 184.9 | | $^{13}C_2$-PFHxA |
| **Recovery standards** | | | | | | |
| $^{13}C_3$-PFBA | 1.95 | 216.0 | 172.0 | n.a. | | External |
| $^{13}C_2$-PFHxA | 4.80 | 315.1 | 270.0 | 119.4 | | External |
| $^{13}C_4$-PFOA | 6.16 | 417.1 | 172.0 | n.a. | | External |
| $^{13}C_5$-PFNA | 6.99 | 468.0 | 423.0 | n.a. | | External |
| $^{13}C_2$-PFDA | 7.47 | 515.1 | 470.1 | n.a. | | External |
| $^{18}O_2$-PFHxS | 6.30 | 403.0 | 83.9 | n.a. | | External |
| $^{13}C_4$-PFOS | 7.59 | 502.8 | 79.9 | 98.9 | | External |

1 Times shown are in decimal minute units.

2 Alternate transition, second m/z, may be used if necessary to avoid interference.

3 Transition ion ratios may vary by instrument, values shown are examples. Ion ratios applicable to qualitative identification are determined from instrumental calibration data.

4 Unit mass resolution of this instrument suggests ± 0.5 amu uncertainty in indicated masses.

5 If the quantifying standard $^{13}C_3$-PFBS is unavailable PFBS may optionally be quantified against $^{13}C_3$-PFHxS.

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## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood/Serum Samples: Procedural Blank Levels and OPR Recovery Ranges

| Compound | Procedural Blank Level (ng/sample) | OPR Recovery Range for Aqueous, Solid and AFFF Samples (%) | OPR Recovery Range for Tissue Samples (%) | OPR Recovery Range for Blood/ Serum Samples (%) |
|---|---|---|---|---|
| PFBA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| PFPeA | ≤ 0.8 | 70-130 | 70-130 | 70-130 |
| PFHxA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFNA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFDA | ≤ 0.4 | 70-130 | 60-130 | 70-150 |
| PFUnA | ≤ 0.4 | 70-130 | 70-140 | 70-140 |
| PFDoA | ≤ 0.4 | 70-130 | 70-130 | 70-140 |
| PFTrDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFTeDA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFBS | ≤ 0.4 | 70-130 | 60-130 | 70-130 |
| PFPeS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHxS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFHpS | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| PFOS | ≤ 0.4 | 70-130 | 70-140 | 70-130 |
| PFNS | ≤ 0.4 | 70-130 | 60-150 | 40-140 |
| PFDS | ≤ 0.4 | 70-130 | 40-150 | 70-130 |
| PFDoS | ≤ 0.4 | 60-130 | 70-140 | 70-130 |
| 4:2 FTS | ≤ 1.6 | 70-130 | 40-150 | 70-130 |
| 6:2 FTS | ≤ 5 | 70-130 | 70-130 | 70-130 |
| 8:2 FTS | ≤ 1.6 | 70-130 | 70-170 | 70-130 |
| PFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSA | ≤ 0.4 | 70-130 | 50-140 | 70-130 |
| N-EtFOSA | ≤ 0.4 | 70-130 | 70-130 | 70-130 |
| N-MeFOSAA | ≤ 0.4 | 70-130 | 60-140 | 70-150 |
| N-EtFOSAA | ≤ 0.4 | 70-130 | 60-140 | 60-130 |
| N-MeFOSE | ≤ 4 | 70-130 | 70-150 | 70-130 |
| N-EtFOSE | ≤ 4 | 70-130 | 70-130 | 70-160 |
| HFPO-DA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| ADONA | ≤ 1.6 | 70-130 | 70-130 | 70-130 |
| 9Cl-PF3ONS | ≤1.6 | 70-130 | 70-130 | 60-130 |
| 11Cl-PF3OUdS | ≤ 1.6 | 70-130 | 60-130 | 70-130 |

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Marginal exceedance allowance – results for one compound may fall outside of these limits by a maximum of 10% of the value. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment. DoD specification for procedural blanks: No analytes detected >½ LOQ or > 1/10$^{th}$ the amount measured in any sample or 1/10$^{th}$ the regulatory limit, whichever is greater.

### DoD QSM Rev. 5.3 Recovery Acceptance Limits for OPRs

| Compound | OPR Recovery Range for Aqueous Samples (%) | OPR Recovery Range for Solid Samples (%) |
|---|---|---|
| PFBA | 73-129 | 71-135 |
| PFPeA | 72-129 | 69-132 |
| PFHxA | 72-129 | 70-132 |
| PFHpA | 72-130 | 71-131 |
| PFOA | 71-133 | 69-133 |
| PFNA | 69-130 | 72-129 |
| PFDA | 71-129 | 69-133 |
| PFUnA | 69-133 | 64-136 |
| PFDoA | 72-134 | 69-135 |
| PFTrDA | 65-144 | 66-139 |
| PFTeDA | 71-132 | 69-133 |
| PFBS | 72-130 | 72-128 |
| PFPeS | 71-127 | 73-123 |
| PFHxS | 68-131 | 67-130 |
| PFHpS | 69-134 | 70-132 |
| PFOS | 65-140 | 68-136 |
| PFNS | 69-127 | 69-125 |
| PFDS | 53-142 | 59-134 |
| 4:2 FTS | 63-143 | 62-145 |
| 6:2 FTS | 64-140 | 64-140 |
| 8:2 FTS | 67-138 | 65-137 |
| PFOSA | 67-137 | 67-137 |
| N-MeFOSA | 68-141 | n.a. |
| N-MeFOSAA | 65-136 | 63-144 |
| N-EtFOSAA | 61-135 | 61-139 |

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## SGS AXYS Analytical Services Ltd.

### QC Specifications for Aqueous, Solid, AFFF, Tissue and Blood Serum Samples: Surrogate Standard Recoveries, OPR and Samples

| Surrogate Standard | OPR and Sample Recovery Range [1] for Aqueous, Solid and AFFF Samples [3] (%) | OPR and Sample Recovery Range [1] for Tissue Samples (%) [3] | OPR and Sample Recovery Range [1] for Blood/Serum Samples (%) [3] |
|---|---|---|---|
| $^{13}C_4$-PFBA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFPeA | 50-150 | 50-150 | 50-150 |
| $^{13}C_5$-PFHxA | 50-150 | 50-150 | 50-150 |
| $^{13}C_4$-PFHpA | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOA | 50-150 | 50-150 | 50-150 |
| $^{13}C_9$-PFNA | 50-150 | 50-150 | 50-150 |
| $^{13}C_6$-PFDA | 50-150 | 50-180 | 50-150 |
| $^{13}C_7$-PFUnA | 50-150 | 50-150 | 50-160 |
| $^{13}C_2$-PFDoA | 50-150 | 50-150 | 50-150 |
| $^{13}C_2$-PFTeDA | 50-150 | 50-150 | 40-150 |
| | | | |
| $^{13}C_3$-PFBS | 50-150 | 50-150 | 50-150 |
| $^{13}C_3$-PFHxS | 50-150 | 50-150 | 50-150 |
| $^{13}C_8$-PFOS | 50-150 | 50-150 | 50-150 |
| | | | |
| $^{13}C_2$-4:2 FTS | 50-150 | 50-220 | 50-150 |
| $^{13}C_2$-6:2 FTS | 50-150 | 50-180 | 30-180 |
| $^{13}C_2$-8:2 FTS | 50-150 | 50-300 | 30-180 |
| | | | |
| $^{13}C_8$-PFOSA | 50-150 | 50-150 | 50-150 |
| $D_3$-N-MeFOSA | 30-150 | [2] | 50-150 |
| $D_5$-N-EtFOSA | 20-150 | [2] | 50-150 |
| | | | |
| $D_3$-N-MeFOSAA | 50-150 | [2] | 40-200 |
| $D_5$-N-EtFOSAA | 50-150 | [2] | 40-200 |
| | | | |
| $D_7$-N-MeFOSE | 30-150 | [2] | 50-150 |
| $D_9$-N-EtFOSE | 30-150 | [2] | 30-150 |
| | | | |
| $^{13}C_3$-HFPO-DA | 50-150 | 50-150 | 50-150 |

[1] Lower surrogate recoveries may be accepted based on application and professional judgment. Note that for AFFF products, these are interim specifications and data outside the specifications may be acceptable based on application and professional judgment.

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[2] These surrogates used only to quantify the analogous native compounds. Formal surrogate recovery limits are under review.

[3] For DoD: Surrogate recoveries are determined by comparing surrogate peak area in samples to surrogate's area measured in the day's initial cal/ver (or I-CAL if run that day).

## QC Specification Table: Other Parameters

| QC Parameter | Specification |
|---|---|
| MS Acquisition Rate | Minimum acquisition rate for every native analyte and labeled compound peak: At least 10 data points per peak. |
| Instrument Sensitivity | Daily, S:N ≥ 10:1 for the primary transition product ion for all analytes for the lowest calibration standard (CAL B) and S:N ≥ 3:1 for the secondary ion.<br>*Additional requirement for DoD: Prior to sample analysis and then at least once every 12 hours, verify sensitivity at the LOQ level by running CAL C The found analyte concentrations must be within ±30% of the true values.* |
| Mass Calibration | Instrument must have a valid mass calibration following the manufacturer specified procedure prior to any sample analysis. The mass calibration is updated on an as-needed basis (e.g. QC failures, ion masses fall outside of the ±0.5 amu of the true value, major instrument maintenance, or if the instrument is moved.)<br>Refer to SIN-033. The entire range (bracketing all the masses of the target analytes) must be mass calibrated. The maximal allowed residual error is ≤ 0.1 Da for each mode with no more than two calibration points missed. |
| Mass Calibration Verification | Mass calibration is verified after each mass calibration, prior to initial ICAL. Mass calibration must be verified to be ±0.5 amu of true value by acquiring a full scan continuum mass spectrum of a PFAS stock standard OR by following the instrument manufacturer's instructions for performing a mass calibration verification and using the instrument manufacturer's recommended standards as long as these standards cover the mass range of the PFAS ions of interest. |
| Initial Calibration (I-CAL) | Run initially, and as required to maintain calibration verification and instrument sensitivity. CAL A is a sensitivity standard S:N ≥ 3:1 for the primary transition product ion for all analytes. CAL B is the default lowest calibration standard. (CAL A is not included in determination of the RRF).<br>Quantification is achieved by the constant RRF method. The I-CAL specifications for the RRF fit are <20% RSD of mean RRFs and 70-130 % recovery of analytes at each concentration level down to C level. The recovery specification for the B CAL is 50-200%. The surrogate recovery specifications are 50-150% recovery at each concentration level.<br>Peak Asymmetry: 0.8-1.5 for PFBA and PFPeA measured in CAL E (mid cal point) at 10% of the peak height. If this is not achieved, perform instrument maintenance and re-run I-CAL. |

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| QC Parameter | Specification |
|---|---|
| Initial Calibration Verification (ICV): | After each Initial Calibration (I-CAL) and prior to sample analysis; analyze a second source standard (similar concentration to the CAL E); quantify against I-Cal, results must meet Cal/Ver accuracy specifications. |
| Calibration Verification (Cal/Ver or CCV) | Continuing Calibration Verification using CAL E<br>Run every 12 hours, quantify against I-CAL.<br>Calculated analyte conc. 70-130% of actual.<br>Calculated surrogate recovery 50 – 150%.<br>*Additional requirement for DoD: Run Cal/Ver every 10 client samples or every 12 hours, whichever occurs first, and at the end of the analytical sequence; quantify against I-CAL. Calculated conc. must be 70- 130 % of actual.*<br>For internal purposes monitor Peak Asymmetry for every Cal/Ver |
| Instrumental Carryover and Instrument Background | An instrument blank containing surrogates is run after every Initial Calibration, Cal/Ver, or OPR. The specification is ≤ 0.3 % carryover from the standard into following instrument blank. This specification covers the *requirement for DoD that the concentration of each analyte in the instrument blank must be ≤ ½ of the LOQ (C CAL).* |
| Duplicate Samples | If conc. ≥ 5 times R.L., RPD ≤ 40%<br>If conc. < 5 times R.L., guideline RPD ≤ 100% |
| MS/MSD | Optional test, client must request. Spiking at the OPR level.<br>MS/MSD Analyte recoveries are evaluated against OPR limits, see Table 6a.<br>RPD ≤ 40%<br>*Additional requirement for DoD: For all matrices analyzed by SPE one Matrix Spike and one Matrix Spike Duplicate shall be included with every analysis batch. MS/MSD recoveries are evaluated against project limits if prescribed by the client, otherwise MS/MSD recoveries are evaluated against the DOD specific acceptance ranges for OPRs listed in Table 6b of this document, or against the MLA-110 OPR method recovery limits for analytes not listed in Table 6b (see Table 6a). RPDs are evaluated against project limits if prescribed by the client, otherwise RPDs are evaluated against the DoD specific limit of ≤30%.* |

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## Appendix A: Naming Convention and CAS Numbers

### PFAS: Naming Convention and CAS Numbers

| *Abbreviation* | *Name - Anion Form* | *CAS#* |
|---|---|---|
| PFBA | Perfluorobutanoate | 45048-62-2 |
| PFPeA | Perfluoropentanoate | 45167-47-3 |
| PFHxA | Perfluorohexanoate | 92612-52-7 |
| PFHpA | Perfluoroheptanoate | 120885-29-2 |
| PFOA | Perfluorooctanoate | 45285-51-6 |
| PFNA | Perfluorononanoate | 72007-68-2 |
| PFDA | Perfluorodecanoate | 73829-36-4 |
| PFUnA | Perfluoroundecanoate | 196859-54-8 |
| PFDoA | Perfluorododecanoate | 171978-95-3 |
| PFTrDA | Perfluorotridecanoate | 862374-87-6 |
| PFTeDA | Perfluorotetradecanoate | 365971-87-5 |
| | | |
| PFBS | Perfluorobutanesulfonate | 45187-15-3 |
| PFPeS | Perfluoropentanesulfonate | 175905-36-9 |
| PFHxS | Perfluorohexanesulfonate | 108427-53-8 |
| PFHpS | Perfluoroheptanesulfonate | 146689-46-5 |
| PFOS | Perfluorooctanesulfonate | 45298-90-6 |
| PFNS | Perfluorononanesulfonate | 474511-07-4 |
| PFDS | Perfluorodecanesulfonate | 126105-34-8 |
| PFDoS | Perfluorododecanesulfonate | 343629-43-6 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonate | 414911-30-1 |
| 6:2 FTS | 6:2 fluorotelomersulfonate | 425670-75-3 |
| 8:2 FTS | 8:2 fluorotelomersulfonate | 481071-78-7 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetate | n.a. |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetate | n.a. |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoate | 122499-17-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoate | 2127366-90-7 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate | 1621485-21-9 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate | 2196242-82-5 |


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**SGS AXYS Analytical Services Ltd.**

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Acid Form*** | ***CAS#*** |
|---|---|---|
| PFBA | Perfluorobutyric acid | 375-22-4 |
| PFPeA | Perfluoropentanoic acid | 2706-90-3 |
| PFHxA | Perfluorohexanoic acid | 307-24-4 |
| PFHpA | Perfluoroheptanoic acid | 375-85-9 |
| PFOA | Perfluorooctanoic acid | 335-67-1 |
| PFNA | Perfluorononanoic acid | 375-95-1 |
| PFDA | Perfluorodecanoic acid | 335-76-2 |
| PFUnA | Perfluoroundecanoic acid | 2058-94-8 |
| PFDoA | Perfluorododecanoic acid | 307-55-1 |
| PFTrDA | Perfluorotridecanoic acid | 72629-94-8 |
| PFTeDA | Perfluorotetradecanoic acid | 376-06-7 |
| | | |
| PFBS | Perfluorobutanesulfonic acid | 375-73-5 |
| PFPeS | Perfluoropentanesulfonic acid | 2706-91-4 |
| PFHxS | Perfluorohexanesulfonic acid | 355-46-4 |
| PFHpS | Perfluoroheptanesulfonic acid | 375-92-8 |
| PFOS | Perfluorooctanesulfonic acid | 1763-23-1 |
| PFNS | Perfluorononanesulfonic acid | 68259-12-1 |
| PFDS | Perfluorodecanesulfonic acid | 335-77-3 |
| PFDoS | Perfluorododecanesulfonic acid | 79780-39-5 |
| | | |
| 4:2 FTS | 4:2 fluorotelomersulfonic acid | 757124-72-4 |
| 6:2 FTS | 6:2 fluorotelomersulfonic acid | 27619-97-2 |
| 8:2 FTS | 8:2 fluorotelomersulfonic acid | 39108-34-4 |
| | | |
| N-MeFOSAA | N-Methylperfluorooctanesulfonamidoacetic acid | 2355-31-9 |
| N-EtFOSAA | N-Ethylperfluorooctanesulfonamidoacetic acid | 2991-50-6 |
| | | |
| HFPO-DA | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid | 13252-13-6 |
| ADONA | Dodecafluoro-3H-4,8-dioxanonanoic acid | 919005-14-4 |
| | | |
| 9Cl-PF3ONS | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 756426-58-1 |
| 11Cl-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |

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## SGS AXYS Analytical Services Ltd.

**PFAS: Naming Convention and CAS Numbers**

| ***Abbreviation*** | ***Name - Sulfonamide*** | ***CAS#*** |
|---|---|---|
| PFOSA | Perfluorooctanesulfonamide | 754-91-6 |
| N-MeFOSA | N-Methylperfluorooctanesulfonamide | 31506-32-8 |
| N-EtFOSA | N-Ethylperfluorooctanesulfonamide | 4151-50-2 |

| ***Abbreviation*** | ***Name - Sulfonamidoethanol*** | ***CAS#*** |
|---|---|---|
| N-MeFOSE | N-Methylperfluorooctanesulfonamidoethanol | 24448-09-7 |
| N-EtFOSE | N-Ethylperfluorooctanesulfonamidoethanol | 1691-99-2 |

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# Appendix B: Sample Storage Conditions

## Sample Storage Requirements

| Matrix | Sample Size (per analysis) | Sample Container [1] | Sample Condition Upon Receipt | Storage Condition [2] | Sample Hold Time [3] | Extract Hold Time [4] | Preservation |
|---|---|---|---|---|---|---|---|
| Aqueous | Up to 1000 mL, but typically 500 mL or less (max. 50 mg solids) | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 90 days | 30 days | None Required |
| Solvent extracts | Typically 0.75 mL | High density polyethylene (HDPE) | 0-4°C, dark | 0-4°C, dark | 60 days | 30 days | None Required |
| Solid | Up to 5 g dry but not more than 10 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Biosolid | Up to 0.5 g dry but not more than 5 g wet. | High density polyethylene (HDPE) | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None required |
| Tissue | Up to 2 g (wet) | High density polyethylene (HDPE) or amber glass jar | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |
| AFFF | Up to 0.02 g | High density polyethylene (HDPE) | Room temperature. | 0-4°C, dark | 90 days | 30 days | None Required |
| Whole Blood [5] or Serum[6] | Up to 2 mL | HDPE or Glass, not polypropylene. | 0-4°C, dark | ≤ -20ºC, dark | 1 Year | 30 days | None Required |

[1] HDPE containers are preferred; amber glass containers are also acceptable. All containers should be organically clean; i.e. solvent-rinsed or purchased 'certified' clean. All containers should be tightly sealed with screw cap lids.

[2] Storage temperatures quoted are nominal temperatures.

[3] Hold times are from time of sampling. Client negotiated requests for specific holding times or other method-specific holding times are adhered to. This 90-day holding time on freezing of aqueous samples is based on SGS AXYS storage stability studies.

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[4] Hold times for sample extracts are from time of extraction with storage at 4°C. This 30-day holding time is a guideline, longer hold times may be accepted based on professional judgement.

[5] Whole blood must be treated with anticoagulant such as heparin or sodium citrate at time of collection.

[6] Glass vacutainers should be used for blood or serum collection. Plastic vacutainers (such as PET plastic) are not suitable as long chain PFAS compounds may be adsorbed onto the vacutainer surface.

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## Stability of PFAS in Aqueous Samples

SGS AXYS has completed an extended-time storage study for the 29 PFAS listed in the table below. The study was conducted in reagent water, surface water and two wastewater treatment plant (WWTP) effluents. PFAS concentrations were measured at 0, 7, 14, 30, 90, and 180-day timepoints with data analysis of a 180-day timepoint in progress. Data analysis up to the 90-day timepoint shows that precursors present in samples containing matrix and biological activity can transform under room temperature and cold storage conditions within 7 days. At this time, only freezing of aqueous samples was demonstrated to stabilize the analytes over a period of up to 90 days. We are recommending freezing non-potable aqueous samples as soon as practicable if not analyzed within 3-4 days.

### Summary of Analyte Stability in Aqueous Samples by Storage Condition

| | Stability (days) | | Remarks |
|---|---|---|---|
| **Analyte** | **4°C** | **-20°C** | |
| $C_4$-$C_{14}$ Perfluorinated carboxylates including PFOA | 90 | 90 | |
| $C_4$-$C_{10}$ perfluorinated sulfonates including PFOS | 90 | 90 | |
| PFDoS | 90 | 90 | |
| 4:2 FTS | 90 | 90 | |
| 6:2 FTS | 90 | 90 | |
| 8:2 FTS | 14 | 90 | Decreasing trend seen from day 7 at 4°C |
| PFOSA | 14 | 90 | Increasing trend seen day 14 onwards at 4°C |
| N-MeFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-EtFOSA | 7 | 90 | Decreasing trend seen at first stability point 4°C |
| N-MeFOSAA | <7 | 90 | Increase from transformation of MeFOSE |
| N-EtFOSAA | 7 | 90 | Increase from transformation of EtFOSE |
| N-MeFOSE | <7 | 90 | Loss seen at first stability point 4°C |
| N-EtFOSE | <7 | 90 | Loss seen at first stability point 4°C |

# Minnesota Pollution Control Agency

## CORRELATION TABLE

## PERFLUORINATED ORGANIC & FTS ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Dale Robinson** |
| **Project: N/A** | **Contract No: 4095** |
| **Project Name: P1007/60608807** | **SGS AXYS Method: MLA-110** |
| **Work Order No.: 3000025335** | **Program: Aqueous Samples** |
| **Data Package Identification: DPWG73047** | |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG72779-101 |
| OPR | WG72779-102 |
| OPR DUPLICATE | WG72779-103 |
| | |
| 392789107055 | L33068-1 |
| 392789107066 | L33068-2 |
| 392789107088 | L33068-3 |
| 392789107114 | L33068-4 |
| 392789107103 | L33068-6 |
| 392789107125 | L33068-7 |
| 392789107099 | L33068-8 |
| EQ-DIPPER-01-051220 | L33068-9 |
| EQ-HOSECLAMP-01-051220 | L33068-10 |
| EQ-ZIPLOCK-01-051220 | L33068-11 |
| EQ-SHOVEL-01-051220 | L33068-12 |
| EQ-AUGER-01-051220 | L33068-13 |
| EQ-PAIL-01-051220 | L33068-14 |
| RC3-WAT-BULK-01-042820 | L33068-15 |
| RC12-WAT-BULK-01-042820 | L33068-16 |
| RC14-WAT-BULK-01-042820 | L33068-17 |
| RC21-WAT-BULK-01-042820 | L33068-18 |
| RC3-WAT-BULK-01-042920 | L33068-19 |
| RC7-WAT-BULK-01-042920 | L33068-20 |
| | |
| | |
| | |
| | |
| | |
| | |

SGS AXYS

# CHAIN OF CUSTODY

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

**REPORT TO:**
Company: AECOM
Address: 800 Lasalle Ave Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
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Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Alexandria Mn

Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLH-110 | TKP Blank | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-042820 | W | 4/28/20 | 1730 | HDPE/4 | L33068-15 | X | | | | |
| RC12-WAT-BULK-01-042820 | " | 4/28/20 | 1800 | " | -16 | X | | | | |
| RC14-WAT-BULK-01-042820 | " | 4/28/20 | 1830 | " | -17 | X | | | | |
| RC21-WAT-BULK-01-042820 | " | 4/28/20 | 1900 | " | -18 | X | | | | |
| RC3-WAT-BULK-01-042920 | " | 4/29/20 | 0900 | " | -19 | X | | | | |
| RC7-WAT-BULK-01-042920 | " | 4/29/20 | 0945 | " | -20 | X | | | | |
| RC12-WAT-BULK-01-042920 | " | 4/29/20 | 1030 | " | -21 | X | | | | |
| RC14-WAT-BULK-01-042920 | " | 4/29/20 | 1145 | " | -22 | X | | | | |
| RC21-WAT-BULK-01-042920 | " | 4/29/20 | 1130 | " | -23 | X | | | | |
| EP16-WAT-BULK-01-042920 | " | 4/29/20 | 1530 | " | -24 | X | | | | |
| TRIP BLANK | " | 4/30/20 | | HDPE/1 | L33068-1 | X | X | | | |

Relinquished by (Signature): [signature] Date: 7/2/20 Time: 1400
Received by (Signature): [signature] Date: 13 MAY 2020 Time: 10:25
Courier:
Waybill No.: 8125 4333 1227

Relinquished by (Signature): Date: Time:
Received by (Signature): Date: Time:

Remarks:

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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SGS AXYS CLIENT #: 4095

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Minneapolis, MN 55402
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Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

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Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Canning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MLA-110 | TRIP BLANK |
|---|---|---|---|---|---|---|---|
| EP19-WAT-BULK-01-042920 | W | 4/29/20 | 1445 | HDPE/4 | L33068-25 | X | |
| EP20-WAT-BULK-01-042920 | W | 4/29/20 | 1345 | HDPE/4 | -26 | X | |
| WL6-WAT-BULK-01-042920 | W | 4/29/20 | 1600 | HDPE/4 | -27 | X | |
| WL9-WAT-BULK-01-042920 | W | 4/29/20 | 1630 | HDPE/4 | -28 | X | |
| WL12-WAT-BULK-01-042920 | W | 4/29/20 | 1700 | HDPE/4 | -29 | X | |
| WL15-WAT-BULK-01-042920 | W | 4/29/20 | 1730 | HDPE/4 | -30 | X | |
| VB1-WAT-BULK-01-042920 | W | 4/29/20 | 1740 | HDPE/4 | -31 | X | |
| RC12-FOAM-01-042820 | W | 4/28/20 | 1750 | HDPE/1 | L33069-1 | X | |
| TRIP BLANK | W | 4/30/20 | — | HDPE/1 | L33068-8 | X | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlson | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier:
Waybill No.: 8125 4333 1180

Remarks: High concentration: RC12-FOAM-01-042820

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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1 of 2

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SGS AXYS CLIENT #: 4095

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Contact: Andrew Tarara
Phone: 612-376-2452
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E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 800 LaSalle Ave, Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: PFAS-MLA-110, MS, MSD, Trip Blank

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | PFAS-MLA-110 | MS | MSD | Trip Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| RC3-WAT-BULK-01-050420 | W | 05/04/20 | 1045 | HDPE/4 | L33068-32 | X | | | | |
| EP4-WAT-BULK-01-050420 | ↓ | ↓ | 1455 | ↓ | -33 | X | | | | |
| EP19-WAT-BULK-01-050420 | ↓ | ↓ | 1530 | ↓ | -34 | X | | | | |
| BP1-WAT-BULK-01-050420 | ↓ | ↓ | 1530 | ↓ | -35 | X | | | | |
| VB1-WAT-BULK-01-050420 | ↓ | ↓ | 1045 | ↓ | -36 | X | | | | |
| VB2-WAT-BULK-01-050420 | ↓ | ↓ | 1145 | ↓ | -37 | X | | | | |
| VB3-WAT-BULK-01-050420 | ↓ | ↓ | 1300 | ↓ | -38 | X | | | | |
| TRIP BLANK | ↓ | 5/4/20 | — | HDPE/1 | -4 | X | | | X | |
| EQ-DIPPER-01-051220 | W | 5/12/20 | 1300 | HDPE/2 | -9 | X | | | | |
| EQ-HOSECLAMP-01-051220 | W | 5/12/20 | 1245 | HDPE/2 | -10 | X | | | | |
| EQ-ZIPLOCK-01-051220 | W | 5/12/20 | 1230 | HDPE/2 | -11 | X | | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 5/12/20 | 1400 | Jennifer Carlson | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier: FedEX
Waybill No.: No waybill assigned
Sample Receipt: $143 declared value

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

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Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrew Lararo
Phone: 612-376-2452
FAX:
E-mail: andrew.lararo@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007-18606187S3

Sampler's Name: Amanda Lannin
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MWA-110 | M25 | MSD | TOPA | TEQ B |
|---|---|---|---|---|---|---|---|---|---|---|
| RC5-WAT-BULK-01-050420 | W | 5/4/20 | 1155 | HDPE/8 | L33071-1 | X | | | X | |
| RC5-WAT-BULK-02-050420 | W | 5/4/20 | 1200 | HDPE/4 | L33068-39 | X | | | | |
| RC5-WAT-BULK-03-050420 | W | 5/4/20 | 1205 | HDPE/8 | -40 | X | X | X | | |
| RC18A-FOAM-OLD-01-050520 | Sludge | 5/5/20 | 1745 | HDPE/2 | L33069-2 | X | | | | |
| RC18A-FOAM-FRESH-01-050520 | W | 5/5/20 | 1800 | HDPE/1 | -3 | X | | | | |
| RC21-FOAM-01-042320 | W | 4/23/20 | 1020 | HDPE/2 | -4 | | | | | |
| EP21-FOAM-01-042320 | W | 4/23/20 | 1200 | HDPE/1 | -5 | | | | | |
| EP21-FOAM-01-050520 | W | 5/5/20 | 1435 | HDPE/1 | -6 | | | | | |
| EP21-FOAM-02-050520 | W | 5/5/20 | 1440 | HDPE/1 | -7 | | | | | |
| EP21-WATSML-01-042420 | W | 4/24/20 | 1515 | HDPE/1 | L33068-75 | | | | | |
| EP25-FOAM-01-051120 | W | 5/11/20 | 1245 | HDPE/2 | -8 | | | | | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature)
Date 13 MAY 2020 Time 10:25
Courier: FedEX
Waybill No.: 8125 4333 1157

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks
RC5-WAT-BULK-03-050420 = MS and MSD
RC18-FOAM-OLD-01-050520, high concentration; sludge - run both liquid + solids
RC18-FOAM-FRESH-01-050520, high concentration
RC21-FOAM-01-042320
EP21-FOAM-01-042320
EP21-FOAM-01-050520
EP21-FOAM-02-050520
EP25-FOAM-01-051120
suspected high concentrations

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Contact: Andrew Tarara
Phone: 612-376-2452
FAX:
E-mail: andrew.tarara@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: P1007 / 60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: MUA-110 | M3 | MS1 | TSA | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|---|
| WL11-FOAM-01-050520 | W | 5/5/20 | 1120 | HDPE/1 | L33069-9 | X | | | | |
| TRIP BLANK | W | 5/12/20 | — | HDPE/1 | L33068-2 | | | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Courier | Waybill No. |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Date 13MAY2020 Time 10:25 | FedEX | 8125 4333 1157 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) Date Time | Sample Receipt | |

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Remarks
WL11-FOAM-01-050520: Potential High Concentrations

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# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
Company: AECOM
Address: 300 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | PFAS-MA-LD | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC17-WAT-BULK-01-050520 | W | 5/5/20 | 0945 | HDPE/4 | L33068-41 | X | | | |
| RC18A-WAT-BULK-01-050520 | W | 5/5/20 | 1730 | HDPE/4 | -42 | X | | | |
| RC18A-WAT-SML-BULK-01-050520 | W | 5/5/20 | 1700 | HDPE/1 | -43 | X | | | |
| RC18-WAT-BULK-01-050520 | W | 5/5/20 | 1030 | HDPE/4 | -44 | X | | | |
| FC1-WAT-BULK-01-050520 | W | 5/5/20 | 1130 | HDPE/4 | -45 | X | | | |
| EP21-WAT-BULK-01-050520 | W | 5/5/20 | 1455 | HDPE/4 | -46 | X | | | |
| WL11-WAT-BULK-01-050520 | W | 5/5/20 | 1125 | HDPE/4 | -47 | X | | | |
| WL15-WAT-BULK-01-050520 | W | 5/5/20 | 1235 | HDPE/4 | -48 | X | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TRIP BLANK | W | | | HDPE/1 | | X | | | X |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlson
Date 13 May 2020 Time 10:25

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Courier: FedEx
Waybill No.: 8149 0205 4440

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

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Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| WL6-WAT-BULK-01-050720 | W | 5/7/20 | 1500 | HDPE/4 | L33068-49 | X | | | |
| WL7-WAT-BULK-01-050720 | W | 5/7/20 | 1320 | HDPE/4 | -50 | X | | | |
| WL7-WAT-BULK-02-050720 | W | | 1325 ~~1525~~ | HDPE/4 | -51 | X | | | |
| WL7-WAT-BULK-01-050720 | W | | 1330 ~~1530~~ | HDPE/8 | -52 | X | X | X | |
| WL9-WAT-BULK-01-050720 | W | | 1045 ~~1100~~ | HDPE/4 | -53 | X | | | |
| WL9-WAT-EFI-01-050720 | W | | 1100 ~~1045~~ | HDPE/4 | -54 | X | | | |
| WL9-WAT-SML-01-050720 | W | | 1030 | HDPE/1 | -55 | X | | | |
| WL12-WAT-BULK-01-050720 | W | | 1200 | HDPE/4 | -56 | X | | | |
| WL12-WAT-BULK-02-050720 | W | | 1210 | HDPE/4 | -57 | X | | | |
| TRIP BLANK | W | 5/10/20 | — | HDPE/1 | -3 | X | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlson | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier: FedEx
Waybill No.: 825 4333 1249

Remarks: WL7-WAT-BULK-01-050720 - MS+MSD samples

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 900 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

**INVOICE TO:**
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Address: 900 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753

Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | TRIP Blank |
|---|---|---|---|---|---|---|---|---|---|
| RC16A-WATBULK-01-050720 | W | 5/7/20 | 1610 | HDPE/4 | L33068-58 | X | | | |
| RC14-WAT-BULK-01-050720 | W | 5/7/20 | 1245 | HDPE/4 | -59 | X | | | |
| RC21-WAT-BULK-01-050720 | W | | 1215 | HDPE/4 | -60 | X | | | |
| RC21-WAT-BULK-02-050720 | W | | 1220 | HDPE/4 | -61 | X | | | |
| EP20-WAT-BULK-01-050720 | W | | 1435 | HDPE/4 | -62 | X | | | |
| EP20-WAT-EPI-01-050720 | W | | 1430 | HDPE/4 | -63 | X | | | |
| EP20-WAT-SML-01-050720 | W | | 1400 | HDPE/1 | -64 | X | | | |
| EP23-WAT-BULK-01-050720 | W | | 1715 | HDPE/4 | -65 | X | | | |
| EP23-WAT-SML-01-050720 | W | | 1700 | HDPE/1 | -66 | X | | | |
| EP24-WAT-BULK-01-050720 | W | | 1710 | HDPE/4 | -67 | X | | | |
| EP24-WAT-BULK-02-050720 | W | | 1720 | HDPE4 | -68 | X | | | |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/12/20 | 1400 | Jennifer Carlsen | 13 May 2020 | 10:25 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Courier: FedEx
Waybill No.: 8125 4333 1216

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

TRIP BLANK 5/12/20 HDPE/1 MLA-110 L33068-5

SGS AXYS

# CHAIN OF CUSTODY

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Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #: 4095

**REPORT TO:**
Company: AECOM
Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

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Address: 800 LaSalle Ave Ste 1100 Minneapolis, MN 55402
Contact: Andrea Tarara
Phone: 612-376-2452
FAX:
E-mail: andrea.tarara@aecom.com

Project Name/Number: P1007/60618753
Sampler's Name: Amanda Lanning
Signature:

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: PFAS-MLA-110 | MS | MSD | Trip Blank | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| RC7-WAT-BULK-01-052020 | W | 5/8/20 | 0945 | HDPE/4 | L33068-69 | X | | | | |
| RC20-WAT-BULK-01-052020 | W | 5/8/20 | 1405 | HDPE/4 | -70 | X | | | | |
| EP8-WAT-BULK-01-052020 | W | 5/8/20 | 1310 | HDPE/4 | -71 | X | | | | |
| WL18-WAT-BULK-01-052020 | W | 5/8/20 | 1115 | HDPE/4 | -72 | X | | | | |
| EP16-WAT-BULK-01-05120 | W | 5/11/20 | 1400 | HDPE/8 | L33071-2 | X | | | | X |
| EP17-WAT-BULK-01-05120 | W | 5/11/20 | 1100 | HDPE/4 | -73 | X | | | | |
| EP25-WAT-BULK-01-05120 | W | 5/11/20 | 1230 | HDPE/4 | -74 | X | | | | |
| EQ-ALUGEK-01-05120 | W | 5/12/20 | 1330 | HDPE/2 | -13 | X | | | | |
| EQ-PALL-01-05120 | W | 5/12/20 | 1345 | HDPE/2 | -14 | X | | | | |
| ~~EQ-SAMPLE-01-05120~~ | ~~W~~ | ~~5/12/20~~ | ~~1315~~ | ~~HDPE/2~~ | | ~~X~~ | | | | |
| TripBlank | W | 5/12/20 | — | HDPE/1 | -7 | X | | | X | |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlson
Date 13 May 2020 Time 10:25

Relinquished by (Signature) Date Time
Received by (Signature) Date Time

Courier: FedEx
Waybill No.: No waybill assigned

Sample Receipt: #137 declared value

Remarks

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
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SGS AXYS CLIENT #: 4095

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Company: AECOM
Address: 800 Lasalle Ave Ste 1100, Minneapolis, MN 55402
Contact: Andrew Tavara
Phone: 612-376-2452
FAX:
E-mail: andrew.tavara@aecom.com

**INVOICE TO:**
Company:
Address:
Contact:
Phone:
FAX:
E-mail:

Project Name/Number: 1907-60616753

Sampler's Name: Amanda Lanning
Signature:

ANALYSIS REQUESTED: MWA-110

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ~~ID~~ (Lab use only) | |
|---|---|---|---|---|---|---|
| EQ-SHOVEL-01-051220 | W | 5/12/20 | 1315 | HDPE/2 | L33068-12 | X |

Relinquished by (Signature) Date 5/12/20 Time 1400
Received by (Signature) Jennifer Carlson
Date 13 May 2020 Time 10:25

Relinquished by (Signature) Date Time
Received by (Signature)
Date Time

Courier: Fed Ex
Waybill No.: No waybill assigned - $143 declared value

Remarks

Sample Receipt

| | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |

Minnesota Pollution Control Agency

# MPCA Chain-of-Custody Form

revision 2017.0328

* indicates a required field

**Work Order Number: 3000244460** 1 of 1

**Turnaround Time: Standard**

**FOR LAB USE ONLY**

Lab Work Order Sticker

**PROJECT/CLIENT INFO**

Facility Code:* SR0001491

Program Code (MDH Lab Only):

Project Name:* Project 1007

Project Task Code:* PRJ08141

Project Manager: Andrew Tarara

Potential Hazard? If yes, add information to **Sampler Comments** field

**LABORATORY**

Lab Name:

Address:

EPA Lab ID:*

**SAMPLE DETAILS**

**SAMPLE TYPES**
Sample=Routine Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample
QC-EB=Equipment Blank
Treated-Mid=Treatment system sample
Treated-Post=Treatment system sample

**SAMPLING METHODS**
G=Grab sample
CT=Composite, time-paced w/AS
CF=Composite w/AS
D-T=Discrete,time-paced w/AS
D-F=Discrete,flow-paced w/AS
SW-GAS=Gas Sampling
Unknown=Unknown

**LAB MATRICES**
DW=Drinking Water
NW=Nonpotable Water
SD=Soil/Solid
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

**FIELD MATRICES**
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
Wtr-Drink=Drinking Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample
Air-Indoor=Indoor Air
Gas-Soil=Soil Gas
Sed-Usieve - Sediment

**ANALYSIS**

| MN Location Identifier* | Field Name | Sample Type* | Start Date* (mm/dd/yyyy) | Start Time* 24 hr (hh:mm) | Depth Start | Depth End | Depth Units (m or ft.) | Sampling Method* | Complete ONLY if Method is CT, CF, D-T, or D-F: End Date (mm/dd/yyyy) | Complete ONLY if Method is CT, CF, D-T, or D-F: End Time 24 hr (hh:mm) | Lab Matrix* | Project Task Code | Field Matrix* | AIS | Sampler Comments (filter volume, special handling, etc.) | # of Cont | PRESERV. / FF: ANALYSIS* | MLA-110 | Lab Sample No. | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIELDQC | 392789107055 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-1 | 1 |
| FIELDQC | 392789107066 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-2 | 2 |
| FIELDQC | 392789107088 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-3 | 3 |
| FIELDQC | 392789107114 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-4 | 4 |
| FIELDQC | 392789107077 | QC-TB | 30/04/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-5 | 5 |
| FIELDQC | 392789107103 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-6 | 6 |
| FIELDQC | 392789107125 | QC-TB | 12/05/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-7 | 7 |
| FIELDQC | 392789107099 | QC-TB | 30/04/2020 | -- | | | | G | | | NW | | QC-BLANK | | | 1 | | x | L33068-8 | 8 |
| FIELDQC | EQ-DIPPER-01-051220 | QC-EB | 12/05/2020 | 1300 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-9 | 9 |
| FIELDQC | EQ-HOSECLAMP-01-051220 | QC-EB | 12/05/2020 | 1245 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-10 | 10 |
| FIELDQC | EQ-ZIPLOCK-01-051220 | QC-EB | 12/05/2020 | 1230 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-11 | 11 |
| FIELDQC | EQ-SHOVEL-01-051220 | QC-EB | 12/05/2020 | 1315 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-12 | 12 |
| FIELDQC | EQ-AUGER-01-051220 | QC-EB | 12/05/2020 | 1330 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-13 | 13 |
| FIELDQC | EQ-PAIL-01-051220 | QC-EB | 12/05/2020 | 1345 | | | | G | | | NW | | QC-BLANK | | | 2 | | x | L33068-14 | 14 |
| S016-051 | RC3-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-15 | 15 |
| S016-061 | RC12-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1800 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-16 | 16 |
| S016-063 | RC14-WAT-BULK-01-042820 | Sample | 04/05/2020 | 1830 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-17 | 17 |
| S016-280 | RC21-WAT-BULK-01-042820 | Sample | 05/05/2020 | 1900 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-18 | 18 |
| S016-051 | RC3-WAT-BULK-01-042920 | Sample | 05/05/2020 | 0900 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-19 | 19 |
| S016-054 | RC7-WAT-BULK-01-042920 | Sample | 23/04/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-20 | 20 |
| S016-061 | RC12-WAT-BULK-01-042920 | Sample | 23/04/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-21 | 21 |
| S016-063 | RC14-WAT-BULK-01-042920 | Sample | 05/05/2020 | 1145 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-22 | 22 |
| S016-280 | RC21-WAT-BULK-01-042920 | Sample | 05/05/2020 | 1130 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-23 | 23 |
| S016-234 | EP16-WAT-BULK-01-042920 | Sample | 24/04/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-24 | 24 |
| 82-0109-00-453 | EP19-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1445 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-25 | 25 |
| 82-0109-00-454 | EP20-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1345 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-26 | 26 |
| S016-071 | WL6-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1600 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-27 | 27 |
| PS00168 | WL9-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1630 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-28 | 28 |
| PS00169 | WL12-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-29 | 29 |
| PS00171 | WL15-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-30 | 30 |
| S016-281 | VB1-WAT-BULK-01-042920 | Sample | 29/04/2020 | 1740 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-31 | 31 |
| S016-051 | RC3-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-32 | 32 |
| 82-0109-00-209 | EP4-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1455 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-33 | 33 |
| 82-0109-00-453 | EP19-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-34 | 34 |
| 82-0111-00-201 | BP1-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1530 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-35 | 35 |
| S016-281 | VB1-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-36 | 36 |
| S016-282 | VB2-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1145 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-37 | 37 |
| S016-316 | VB3-WAT-BULK-01-050420 | Sample | 04/05/2020 | 1300 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-38 | 38 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S016-189 | RC5-WAT-BULK-02-050420 | QC-FR | 04/05/2020 | 1200 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-39 | 39 |
| S016-189 | RC5-WAT-BULK-03-050420 | QC-FR | 04/05/2020 | 1205 | | | | G | | | NW | | Wtr-Surf | | MS/MSD | 8 | | x | L33068-40 | 40 |
| S016-067 | RC17-WAT-BULK-01-050520 | Sample | 05/05/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-41 | 41 |
| S016-339 | RC18A-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1730 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-42 | 42 |
| S016-339 | RC18A-WAT-SML-01-050520 | Sample | 05/05/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-43 | 43 |
| 82-0109-00-208 | RC18-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-44 | 44 |
| S016-315 | FC1-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1130 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-45 | 45 |
| 82-0106-00-303 | EP21-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1455 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-46 | 46 |
| S016-074 | WL11-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1125 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-47 | 47 |
| PS00171 | WL15-WAT-BULK-01-050520 | Sample | 05/05/2020 | 1235 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-48 | 48 |
| S016-071 | WL6-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1500 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-49 | 49 |
| S016-072 | WL7-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1320 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-50 | 50 |
| S016-072 | WL7-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1325 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-51 | 51 |
| S016-072 | WL7-WAT-BULK-03-050720 | QC-FR | 07/05/2020 | 1330 | | | | G | | | NW | | Wtr-Surf | | MS/MSD | 8 | | x | L33068-52 | 52 |
| PS00168 | WL9-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1045 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-53 | 53 |
| PS00168 | WL9-WAT-EPI-01-050720 | Sample | 07/05/2020 | 1100 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-54 | 54 |
| PS00168 | WL9-WAT-SML-01-050720 | Sample | 07/05/2020 | 1030 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-55 | 55 |
| PS00169 | WL12-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1200 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-56 | 56 |
| PS00169 | WL12-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1210 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-57 | 57 |
| S016-314 | RC16A-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1610 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-58 | 58 |
| S016-063 | RC14-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1245 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-59 | 59 |
| S016-280 | RC21-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1215 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-60 | 60 |
| S016-280 | RC21-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1220 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-61 | 61 |
| 82-0109-00-454 | EP20-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1435 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-62 | 62 |
| 82-0109-00-454 | EP20-WAT-EPI-01-050720 | Sample | 07/05/2020 | 1430 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-63 | 63 |
| 82-0109-00-454 | EP20-WAT-SML-01-050720 | Sample | 07/05/2020 | 1400 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-64 | 64 |
| 82-0106-00-302 | EP23-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1715 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-65 | 65 |
| 82-0106-00-302 | EP23-WAT-SML-01-050720 | Sample | 07/05/2020 | 1700 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-66 | 66 |
| 82-0107-00-204 | EP24-WAT-BULK-01-050720 | Sample | 07/05/2020 | 1710 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-67 | 67 |
| 82-0107-00-204 | EP24-WAT-BULK-02-050720 | QC-FR | 07/05/2020 | 1720 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-68 | 68 |
| S016-054 | RC7-WAT-BULK-01-050820 | Sample | 08/05/2020 | 0945 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-69 | 69 |
| S016-276 | RC20-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1405 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-70 | 70 |
| 82-0109-00-211 | EP8-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1310 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-71 | 71 |
| SS00087 | WL18-WAT-BULK-01-050820 | Sample | 08/05/2020 | 1115 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-72 | 72 |
| 82-0109-00-452 | EP17-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1100 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-73 | 73 |
| 82-0107-00-205 | EP25-WAT-BULK-01-051120 | Sample | 11/05/2020 | 1230 | | | | G | | | NW | | Wtr-Surf | | | 4 | | x | L33068-74 | 74 |
| 82-0106-00-303 | EP21-WAT-SML-01-042420 | Sample | 24/04/2020 | 1515 | | | | G | | | NW | | Wtr-Surf | | | 1 | | x | L33068-75 | 75 |

| | | | |
|---|---|---|---|
| **Sampler's Name:*** | Amanda Lanning | **Phone#:** 612-268-9890 | **Billing Organization:** |
| **Sampler's Signature:*** | | | **Address:** |
| **Sampler's Organization:** | AECOM | | **Courier Name:** |

**Receiving Comments:**

| **Relinquished By/Affiliation** | **Date/Time** | **Accepted By/Affiliation** | **Date/Time** |
|---|---|---|---|
| (Sampler) | | | |
| | | | |
| | | | |

4095

ORIGIN ID:SYNA (612) 376-2452
Amanda Canning
Aecom
800 LaSalle ave S
Suite 1100
MINNEAPOLIS, MN 55402
UNITED STATES, US

SHIP DATE: 12MAY20
TOTWGT: 436.85 LB
CAD: 6990377/SSF02110

DIMS: 24x14x13 IN
BILL THIRD PARTY
EIN/VAT:

Part # 156297-435 RRCBC XXX 04/2020

TO **Sample Receiving**
**SGS AXYS ANALYTICAL**
**2045 W MILLS RD**

**SIDNEY, BC V8L5X2**

**CANADA, CA**

(250) 655-5831

**FedEx** Express

**(CA)**

**AWB**

**E**

J2011200424 2Auv

**XQ YYJA**
**AHS**
**PKG:YOUR PKG**

TRK# **3927 8910 7055**
**1 of 8**

Form
0430

**AM**
**INTL PRIORITY**

REF: 60608807-P1007
DESC1:SAMPLES - 30-60 samples, in each cooler, of water in plastic
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.36

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

COUNTRY MFG: US
CARRIAGE VALUE: 1120.00 USD
CUSTOMS VALUE: 1120.00 USD

SIGN: Amanda Canning
T/C: 0 141083937
D/T: R

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

**FEDEX AWB COPY — PLEASE PLACE IN POUCH**

10:25
5730
Bags wet ice, melting
9.0°C

RECEIVED
MAY 13 2020

4095

WB274de

FedEx
TRK# 0430 7704 4787 9776

AM
INTL PRIORITY

XQ YYJA

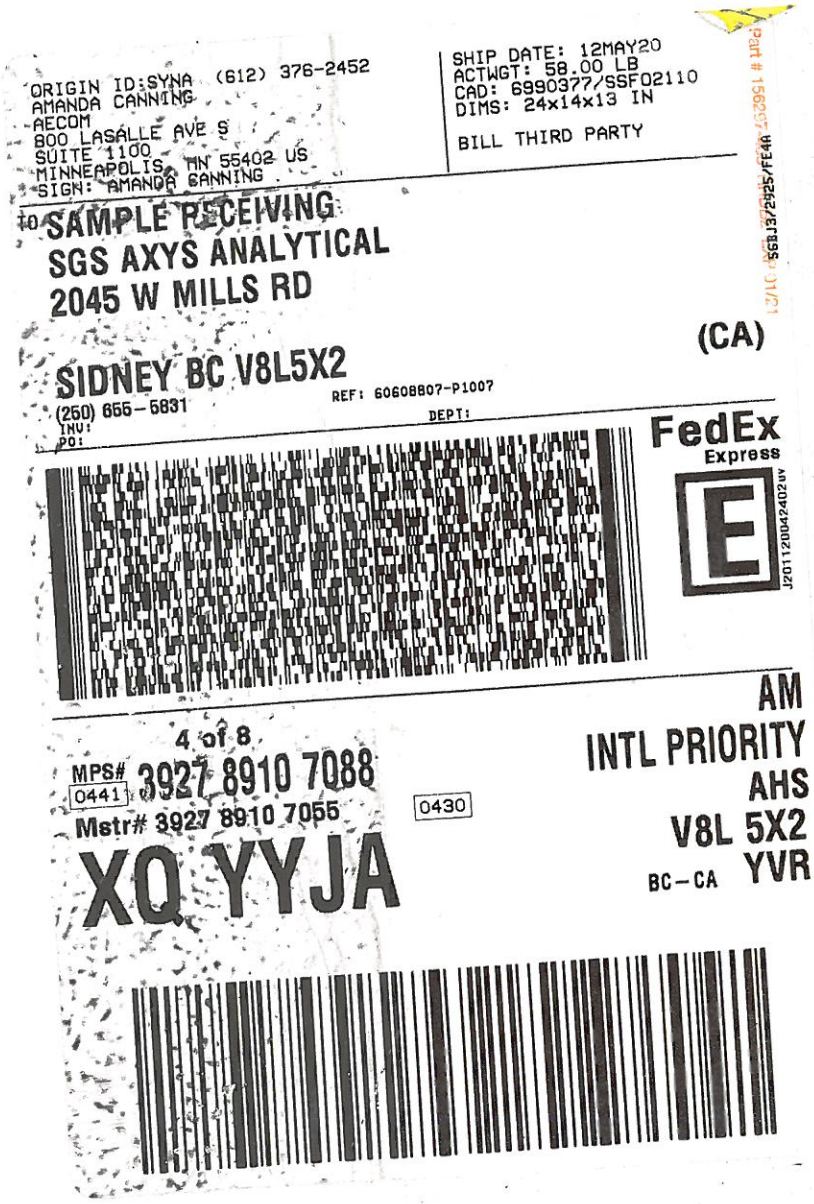
V8L 5X2
BC-CA
YVR

FID 5094628 12MAY20 GEGA 56BC3/2925/05A2

10:25
5726
3.3
Bags wet
ice, melting

RECEIVED
MAY 13 2020

4095



ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 58.00 LB
CAD: 6990377/SSFO2110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831 REF: 60608807-P1007
INV: DEPT:
PO:

FedEx Express

4 of 8
MPS# 3927 8910 7088
0441 0430
Mstr# 3927 8910 7055

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

WB27470

10:25

RECEIVED
MAY 13 2020
Jennifer Carlson

bagged wet ice
melting
7.9°C
5711

WB27471

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 61.00 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:

FedEx Express

MPS# 0441 7 of 8 3927 8910 7114
Mstr# 3927 8910 7055 0430

XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

RECEIVED
MAY 13 2020
Jennifer Carlson

10.25
5728
Bags wet ice, melting
TB present
5.9°C

4095

WB27472

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 55.15 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

Part # 156297 56BJ3/2925/FE4A

TO **SAMPLE RECEIVING**
**SGS AXYS ANALYTICAL**
**2045 W MILLS RD**

**SIDNEY BC V8L5X2** (CA)
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:

FedEx Express

E

J201120042402uv

3 of 8
MPS# 0441 3927 8910 7077
Mstr# 3927 8910 7055 0430

**XQ YYJA**

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

10:25
RECEIVED
MAY 13 2020
Jennifer Carlsen

bagged wet ice
melting
7.8°C
5740

4095

WB27473

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 50.45 LB
CAD: 6990377/SSFO2110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2 (CA)
(250) 655-5831 REF: 60608807-P1007
INV:
PO: DEPT:

FedEx Express

6 of 8
MPS# 0441 3927 8910 7103
Mstr# 3927 8910 7055 0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

RECEIVED
MAY 13 2020
Jenifer Carlson

8.9°C
5745
Bags wet ice, melted
10:25

4095

W327474

ORIGIN ID:SYNA (612) 376-2452
AMANDA CANNING
AECOM
800 LASALLE AVE S
SUITE 1100
MINNEAPOLIS, MN 55402 US
SIGN: AMANDA CANNING

SHIP DATE: 12MAY20
ACTWGT: 57.90 LB
CAD: 6990377/SSF02110
DIMS: 24x14x13 IN

BILL THIRD PARTY

TO SAMPLE RECEIVING
SGS AXYS ANALYTICAL
2045 W MILLS RD

SIDNEY BC V8L5X2
(250) 655-5831
INV:
PO:
REF: 60608807-P1007
DEPT:
(CA)

FedEx Express

J201120012402uv

8 of 8
MPS# 0441 3927 8910 7125
Mstr# 3927 8910 7055
0430
XQ YYJA

AM
INTL PRIORITY
AHS
V8L 5X2
BC-CA YVR

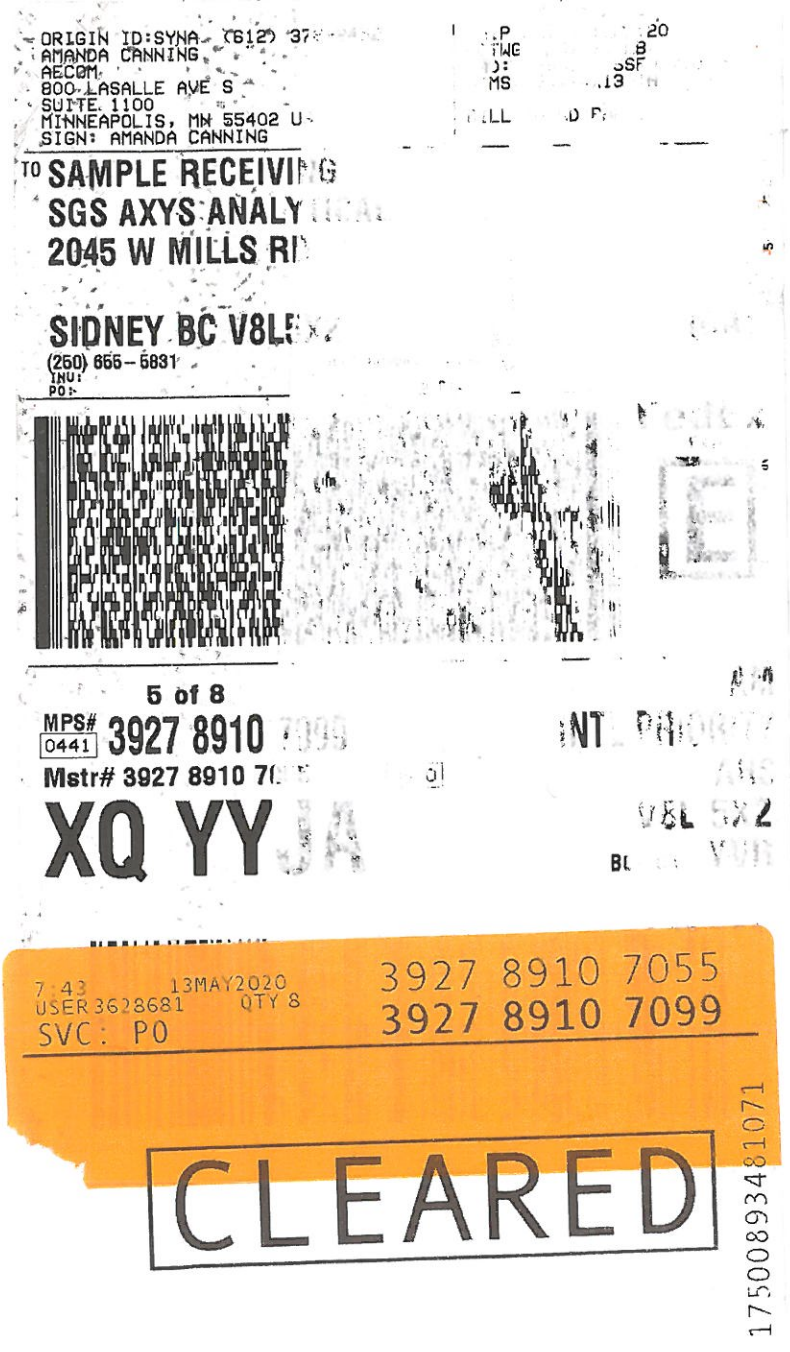
1

RECEIVED
MAY 13 2020

10:25
Bags wet icey melting
5729
7.2°C

4095

WB27475




10:25

RECEIVED
MAY 13 2020
Jennifer Carlsen

bagged wet ice
melting
6.5°C
S713

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107055
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27465

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-1, -15 to -23

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 9 Celcius bags wet ice, melting

Thermometer ID: 5730
Corrected Temperature: 8.8 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

# SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

DPR 03-Jun-20

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: ~~392752798931~~ 392789107066
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27466

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: RGENDIVE Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-2, -39, -40, -75 L33069-2 to -9 L33071-1

Matrix Type: aq

Condition of Shipping Container: INTACT

Temperature upon Receipt: 3.3 Celcius bags wet ice, melting

Thermometer ID: 5726
Corrected Temperature: 3.3 Celcius
Samples received above temperature: Yes /No

| Custody Seals: | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Shipping Containers Yes /No | Intact Yes /No | Seal Numbers Yes /No | Signature and Date Yes /No |
| | Samples Yes /No | Intact Yes /No | Seal Numbers Yes /No | Signature and Date Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

## SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107088
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27470

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: BGENDIVE Signature:

Axys Sample ID's: L33068-3, -49 to -57

Matrix Type: aq

Thermometer ID: 5711

Condition of Shipping Container: Intact

Corrected Temperature: 7.8 Celcius

Temperature upon Receipt: 7.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Custody Seals: | Shipping Containers | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |
| | Samples | Yes /No | Intact | Yes /No | Seal Numbers | Yes /No | Signature and Date | Yes /No |

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | Yes /No | Tracking Report /Packing List: | Yes /No |
| Sample ID's | Yes /No | Sample Tag Numbers | Yes /No |
| Collection Location | Yes /No | Sample Type | Yes /No |
| Date & Time Collection | Yes /No | Preservative Added Prior to Receipt | Yes /No |
| Collector's Name | Yes /No | Preservative Added at SGS AXYS | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Tags | Yes /No | Sample Tags Cross Referenced to Sample Labels | Yes /No | Information Agrees | Yes /No |
| | | Sample Tags Cross Referenced to COC | Yes /No | Information Agrees | Yes /No |

| | | | | | |
|---|---|---|---|---|---|
| Sample Labels | Yes /No | Sample Labels Cross Referenced to COC | Yes /No | Samples logged in as per previous submissions | Yes /No |
| | | Information Agrees | Yes /No | Samples logged in as per COC | Yes /No |
| | | | | Discrepancies attached | Yes /No |

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

## SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107114
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27471

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDINE Signature:

Axys Sample ID's: L33068-4, -9 to -12, -32 to -38

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5728

Corrected Temperature: 5.7 Celcius

Temperature upon Receipt: 5.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

## SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107077
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27472

Login:

SGS AXYS Client & Contract # **4095-Minnesota Pollution Control**

Received By: JCARLSON

Log in by: RGENDIVE Signature:

Axys Sample ID's: L33068-58 to -68

Matrix Type: aq

Thermometer ID: 5740

Condition of Shipping Container: Intact

Corrected Temperature: 7.5 Celcius

Temperature upon Receipt: 7.8 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

TRIP BLANK NOT RECEIVED (L33068-5)

FSA-015 Rev10, 19-Jun-2019

## SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107103
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27473

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENTILE Signature:

Axys Sample ID's: L33068-40, -41 to -48

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5745

Corrected Temperature: 8.7 Celcius

Temperature upon Receipt: 8.9 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No
Sample Lid breakage Yes /No

If yes, see sample transfer documentation

Comments:

FSA-015 Rev10, 19-Jun-2019

## SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107125
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27474

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDILLE

Signature:

Axys Sample ID's: L33068-7, -13, -14, -69 to -74 L33071-2

Matrix Type: aq

Condition of Shipping Container: intact

Thermometer ID: 5729

Corrected Temperature: 7.2 Celcius

Temperature upon Receipt: 7.2 Celcius bagged wet ice melting

Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No

Samples logged in as per previous submissions Yes /No
Samples logged in as per COC Yes /No
Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation

Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

## SGS AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : Yes /No
Date Shipped: 12-MAY-20

Waybill #: 392789107099
Date /Time Received: 13-MAY-20 10:25
Receipt No: WB27475

Login:

SGS AXYS Client & Contract # 4095-Minnesota Pollution Control

Received By: JCARLSON

Log in by: RGENDIVE

Signature:

Axys Sample ID's: L33068-8, -24 to -31

Matrix Type: aq

Condition of Shipping Container: Intact

Temperature upon Receipt: 6.5 Celcius bagged wet ice melting

Thermometer ID: 5713
Corrected Temperature: 6.4 Celcius
Samples received above temperature: Yes /No

Custody Seals: Shipping Containers Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No
Samples Yes /No Intact Yes /No Seal Numbers Yes /No Signature and Date Yes /No

Chain of Custody or Documents: Yes /No
- Sample ID's Yes /No
- Collection Location Yes /No
- Date & Time Collection Yes /No
- Collector's Name Yes /No

Tracking Report /Packing List: Yes /No
- Sample Tag Numbers Yes /No
- Sample Type Yes /No
- Preservative Added Prior to Receipt Yes /No
- Preservative Added at SGS AXYS Yes /No

Sample Tags Yes /No
- Sample Tags Cross Referenced to Sample Labels Yes /No — Information Agrees Yes /No
- Sample Tags Cross Referenced to COC Yes /No — Information Agrees Yes /No

Sample Labels Yes /No
- Sample Labels Cross Referenced to COC Yes /No
- Information Agrees Yes /No
- Samples logged in as per previous submissions Yes /No
- Samples logged in as per COC Yes /No
- Discrepancies attached Yes /No

Sample Container breakage Yes /No If yes, see sample transfer documentation
Sample Lid breakage Yes /No

Comments:

FSA-015 Rev10, 19-Jun-2019

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

*Checked 08-Jun-20 DPR*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | | **Received** | **Due** | **PR** |
|---|---|---|---|---|---|
| **L33068-1** | | | 13-MAY-20 | | |
| | | Storage: WIF-2, coolers | | | |
| 392789107055 | | FIELDQC | | | |
| 30-APR-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33068-2** | | | 13-MAY-20 | | |
| | | Storage: WIF-2, coolers | | | |
| 392789107066 | | FIELDQC | | | |
| 12-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33068-3** | | | 13-MAY-20 | | |
| | | Storage: WIF-2, coolers | | | |
| 392789107088 | | FIELDQC | | | |
| 12-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |
| **L33068-4** | | | 13-MAY-20 | | |
| | | Storage: WIF-2, coolers | | | |
| 392789107114 | | FIELDQC | | | |
| 04-MAY-20 00:00 | | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 1 | : 1 L plastic | USD |

| **Axys ID versus Client Sample Identification** | | | **Received** | **Due** | **PR** |
|---|---|---|---|---|---|
| **L33068-5** | | | 13-MAY-20 | | |
| 392789107077<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| Comments: Trip blank sample not received | | | | | |
| **L33068-6** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107103<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |
| **L33068-7** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107125<br>12-MAY-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |
| **L33068-8** | | | 13-MAY-20 | | |
| | Storage: WIF-2, coolers | | | | |
| 392789107099<br>30-APR-20 00:00 | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | | |
| EDataDeliv | FC110 EDD | | : | | USD |
| Data Package | FC110 MINI | | : | | USD |
| Aqueous | FC110 | | : | | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | | USD |
| ANY | SAMPLE RECEIPT | 1 | : 1 L plastic | | USD |

| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-9** | | 13-MAY-20 | | |
| Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-DIPPER-01-051220 | FIELDQC | | | |
| 12-MAY-20 13:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L33068-10** | | 13-MAY-20 | | |
| Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-HOSECLAMP-01-051220 | FIELDQC | | | |
| 12-MAY-20 12:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| **L33068-11** | | 13-MAY-20 | | |
| Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-ZIPLOCK-01-051220 | FIELDQC | | | |
| 12-MAY-20 12:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | | **Received** | **Due** | **PR** |
|---|---|---|---|---|---|
| **L33068-12** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-SHOVEL-01-051220<br>12-MAY-20 13:15 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-13** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-AUGER-01-051220<br>12-MAY-20 13:30 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |
| **L33068-14** | | | 13-MAY-20 | | |
| | Storage: 2/2 for prescreen WIF-4 8B in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EQ-PAIL-01-051220<br>12-MAY-20 13:45 | | FIELDQC<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | | : | USD |
| Data Package | FC110 MINI | | | : | USD |
| Aqueous | FC110 | | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | | : | USD |
| ANY | SAMPLE RECEIPT | | 2 | : 500 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-15** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-042820<br>28-APR-20 17:30 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-16** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC12-WAT-BULK-01-042820<br>28-APR-20 18:00 | S016-051<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-17** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-042820<br>28-APR-20 18:30 | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-18** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-042820 | S016-280 | | | |
| 28-APR-20 19:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-19** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-042920 | S016-051 | | | |
| 29-APR-09 09:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-20** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC7-WAT-BULK-01-042920 | S016-054 | | | |
| 29-APR-09 09:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-21** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC12-WAT-BULK-01-042920<br>29-APR-09 10:30 | S016-061<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-22** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-042920<br>29-APR-09 11:45 | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-23** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC21-WAT-BULK-01-042920<br>29-APR-09 11:30 | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-24** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EP16-WAT-BULK-01-042920 | S016-234 | | | |
| 29-APR-09 15:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-25** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EP19-WAT-BULK-01-042920 | 82-0109-00-453 | | | |
| 29-APR-09 14:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-26** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EP20-WAT-BULK-01-042920 | 82-0109-00-454 | | | |
| 29-APR-09 13:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-27** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL6-WAT-BULK-01-042920<br>29-APR-09 16:00 | S016-071<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-28** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-BULK-01-042920<br>29-APR-09 16:30 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-29** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-01-042920<br>29-APR-09 17:00 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-30** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL15-WAT-BULK-01-042920 | PS00171 | | | |
| 29-APR-09 17:30 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-31** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB1-WAT-BULK-01-042920 | S016-281 | | | |
| 29-APR-09 17:40 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-32** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC3-WAT-BULK-01-050420 | S016-051 | | | |
| 04-MAY-20 10:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-33** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EP4-WAT-BULK-01-050420 04-MAY-20 14:55 | 82-0109-00-209 Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-34** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EP19-WAT-BULK-01-050420 04-MAY-20 15:30 | 82-0109-00-453 Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-35** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| BP1-WAT-BULK-01-050420 04-MAY-20 15:30 | 82-0111-00-201 Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-36** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB1-WAT-BULK-01-050420<br>04-MAY-20 10:45 | S016-281<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-37** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB2-WAT-BULK-01-050420<br>04-MAY-20 11:45 | S016-282<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-38** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| VB3-WAT-BULK-01-050420<br>04-MAY-20 13:00 | S016-316<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-39** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| RC5-WAT-BULK-02-050420 | S016-189 | | | |
| 04-MAY-20 12:00 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-40** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| RC5-WAT-BULK-03-050420 | S016-189 | | | |
| 04-MAY-20 12:05 | Project #: TIM LOCKREM 2019 | | | |
| Comments: requires MS/MSD | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33068-41** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| RC17-WAT-BULK-01-050520 | S016-067 | | | |
| 05-MAY-20 09:45 | Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-42** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18A-WAT-BULK-01-050520<br>05-MAY-20 17:30 | S016-339<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-43** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18A-WAT-SML-01-050520<br>05-MAY-20 17:00 | S016-339<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-44** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC18-WAT-BULK-01-050520<br>05-MAY-20 10:30 | 82-0109-00-208<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-45** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| FC1-WAT-BULK-01-050520<br>05-MAY-20 11:30 | S016-315<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-46** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP21-WAT-BULK-01-050520<br>05-MAY-20 14:55 | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-47** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL11-WAT-BULK-01-050520<br>05-MAY-20 11:25 | S016-074<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-48** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL15-WAT-BULK-01-050520<br>05-MAY-20 12:35 | PS00171<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-49** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL6-WAT-BULK-01-050720<br>07-MAY-20 15:00 | S016-071<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-50** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-01-050720<br>07-MAY-20 13:20 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-51** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-02-050720<br>07-MAY-20 13:25 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-52** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL7-WAT-BULK-03-050720<br>07-MAY-20 13:30 | S016-072<br>Project #: TIM LOCKREM 2019 | | | |
| Comments: requires MS/MSD | | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 4 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 4 | : 60 mL plastic | USD |
| **L33068-53** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-BULK-01-050720<br>07-MAY-20 10:45 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-54** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-EPI-01-050720<br>07-MAY-20 11:00 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-55** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL9-WAT-SML-01-050720<br>07-MAY-20 10:30 | PS00168<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-56** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-01-050720<br>07-MAY-20 12:00 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-57** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL12-WAT-BULK-02-050720<br>07-MAY-20 12:10 | PS00169<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-58** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC16A-WAT-BULK-01-050720<br>07-MAY-20 16:10 | S016-314<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-59** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC14-WAT-BULK-01-050720<br>07-MAY-20 12:45 | S016-063<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L33068-60** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| RC21-WAT-BULK-01-050720<br>07-MAY-20 12:15 | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-61** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| RC21-WAT-BULK-02-050720<br>07-MAY-20 12:20 | S016-280<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-62** | | 13-MAY-20 | | |
| Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | | |
| EP20-WAT-BULK-01-050720<br>07-MAY-20 14:35 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-63** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-EPI-01-050720<br>07-MAY-20 14:30 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-64** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP20-WAT-SML-01-050720<br>07-MAY-20 14:00 | 82-0109-00-454<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-65** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP23-WAT-BULK-01-050720<br>07-MAY-20 17:15 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-66** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP23-WAT-SML-01-050720<br>07-MAY-20 17:00 | 82-0106-00-302<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 1 | : 500 mL plastic | USD |
| **L33068-67** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP24-WAT-BULK-01-050720<br>07-MAY-20 17:10 | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-68** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP24-WAT-BULK-02-050820<br>08-MAY-20 09:00 | 82-0107-00-204<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-69** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC7-WAT-BULK-01-050820<br>08-MAY-20 09:45 | S016-054<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-70** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| RC20-WAT-BULK-01-050820<br>08-MAY-20 14:05 | S016-276<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-71** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP8-WAT-BULK-01-050820<br>08-MAY-20 13:10 | 82-0109-00-211<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-72** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| WL18-WAT-BULK-01-050820<br>08-MAY-20 11:15 | SS00087<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-73** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP17-WAT-BULK-01-051120<br>11-MAY-20 11:00 | 82-0109-00-452<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |
| **L33068-74** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP25-WAT-BULK-01-051120<br>11-MAY-20 12:30 | 82-0107-00-205<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (ln01)**

*Jun. 08, 2020*

*04:03 PM*

**Login Number:** L33068

**Account:** 4095 Minnesota Pollution Control

**Project:** TIM LOCKREM 2019



| **Axys ID versus Client Sample Identification** | | **Received** | **Due** | **PR** |
|---|---|---|---|---|
| **L33068-75** | | 13-MAY-20 | | |
| | Storage: 60mL for prescr in yellow bin in front of 7; blanks and samples in coolers WIF-2 | | | |
| EP21-WAT-SML-01-042420<br>24-APR-20 15:15 | 82-0106-00-303<br>Project #: TIM LOCKREM 2019 | | | |
| EDataDeliv | FC110 EDD | | : | USD |
| Data Package | FC110 MINI | | : | USD |
| Aqueous | FC110 | | : | USD |
| Aqueous | FC110.PS | | : | USD |
| ANY | ENVIRO DISPOSAL FEE | | : | USD |
| ANY | SAMPLE RECEIPT | 2 | : 500 mL plastic | USD |
| ANY | SAMPLE RECEIPT 2 | 2 | : 60 mL plastic | USD |

4085
15 May 2020
RTG / STC

WB27465

L33068-1, -15 to -23

WB27466

L33068-2, -40, -39, -75

L33069-2 to -9

L33071-1, ~~-2~~ RTG

WB27470

L33068-3, 52, 49, 50, 52, 55, 53, 51, 57, 56, 54.

WB27471

L33068-4, -9 to -12,

-32 to -38, ~~-37 RTG, -39~~

4095
15MAY2020
RTG/ JTC

WB27472

L33068-~~58~~

RTG 15MAY2020

L33068-5
392789107077
4095
Not Received

1/1

WB27473

L33068-6, 47, 45, 46, 44, 42, 41, 48, 43
(-41 to -48)

WB27474

L33068-7, 13, 14, -69 to -72, -73, -74

L33068-58, 60, 61, 68, 62, 59, 66, 64, 65, 67, 63
(-58 to -68)

L33071-2

WB27475

L33068-8, -24 to -31
L33069-1

| Contract: 4095 | Date: 28-May-2020 | Initials: |
|---|---|---|

| Axys ID | Client ID | | Sampling Date&Time | | Missing | Damaged Label | Other/Comments: |
|---|---|---|---|---|---|---|---|
| | COC | Client Label (if discrepancy) | COC | Client Label (if discrepancy) | | | |
| L33068-52 | WL7-WAT-BULK-01-050720 | WL7-WAT-BULK-03-050720 | 07/05/2020 1:30:00 PM | | | | Logged in per client label, as instructed by PM / email from client. |
| L33068-57 | WL12-WAT-BULK-01-050720 | WL12-WAT-BULK-02-050720 | 07/05/2020 12:10:00 PM | | | | |
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4095

## Gendive, Rosemarie (Sidney)

**From:** Robinson, Dale (Sidney)
**Sent:** Thursday, May 14, 2020 11:36 AM
**To:** ca.axys.Sample.Receiving
**Subject:** 4095 sample labeling issue (2 of 2)
**Attachments:** Shipping_COC_392789107088_Originally812543331249_051220.pdf

And another one...

Cheers,
Dale Robinson

Dale Robinson, B.Sc.
**Environment, Health and Safety**
Project Manager

Direct Office: +1-250 655 5812
Main Phone: +1 250 655 5800
Toll Free: +1 888 373 0881

**From:** Lanning, Amanda <amanda.lanning@aecom.com>
**Sent:** Thursday, May 14, 2020 11:33 AM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Similarly, there are two WL12-WAT-BULK-01-050720 – the second one should be WL12-WAT-BULK-**02**-050720. Again, the bottle labels should be correct.

Sorry should be the last typo....

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

**From:** Lanning, Amanda
**Sent:** Thursday, May 14, 2020 1:30 PM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew (Andrew.Tarara@aecom.com) <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

Hi Dale,

I just caught a typo in the COC for tracking number 392789107088. There are two WL7-WAT-BULK-01-050720 sample IDs; the second one, which is marked for the MS/MSD kit, should be WL7-WAT-BULK-03-050720. I am pretty sure the labels are correct on the physical bottles are correct. I have attached the marked up COC.

They will be correct on the supplementary chains as well, but I wanted to get this to you before a parent sample inadvertently gets spiked.

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

---

**From:** Lanning, Amanda
**Sent:** Wednesday, May 13, 2020 11:17 AM
**To:** Robinson, Dale (Sidney) <Dale.Robinson@sgs.com>; Pillay, Kalai (Sidney) <Kalai.Pillay@sgs.com>; Grace, Richard (Toronto) <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew (Andrew.Tarara@aecom.com) <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

2 of 4

Amanda Lanning
Direct: (612) 376-2047
Cell: (612) 268-9890

---

**From:** Lanning, Amanda
**Sent:** Wednesday, May 13, 2020 11:16 AM
**To:** 'Robinson, Dale (Sidney)' <Dale.Robinson@sgs.com>; 'Pillay, Kalai (Sidney)' <Kalai.Pillay@sgs.com>; 'Grace, Richard (Toronto)' <Richard.Grace@sgs.com>
**Cc:** Tarara, Andrew <Andrew.Tarara@aecom.com>; Senjem, Alex <alex.senjem@aecom.com>
**Subject:** RE: [EXTERNAL] Two Coolers Shipped Last Night

Email 1 of 4:

Hi all,

Attached (in multiple emails for file size restriction reasons) are the shipping documents and associated COCs. The tracking numbers are:

39278910 7055
39278910 7066
39278910 7077
39278910 7088
39278910 7099
39278910 7103
39278910 7114
39278910 7125

Dale, as you and I discussed, I would like to run sample RC18A-FOAM-OLD-01-050520 as both a solids and an aqueous sample, or whatever makes sense. That sample is on the chain associated with tracking number: 392789107066.

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107055**
**Sample Collection:**
**30-Apr-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-1 R |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.494 L |
| **Extraction Date:** | 15-Jul-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:32:10 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_237 S: 20** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.24 (L) | |
| **PFPeA** | U | | 1.62 (L) | |
| **PFHxA** | U | | 0.809 (L) | |
| **PFHpA** | U | | 0.809 (L) | |
| **PFOA** | U | | 0.809 (L) | |
| **PFNA** | U | | 0.809 (L) | |
| **PFDA** | U | | 0.809 (L) | |
| **PFUnA** | U | | 0.809 (L) | |
| **PFDoA** | U | | 0.809 (L) | |
| **PFTrDA** | U | | 0.809 (L) | |
| **PFTeDA** | U | | 0.809 (L) | |
| **PFBS** | U | | 0.809 (L) | |
| **PFPeS** | U | | 0.809 (L) | |
| **PFHxS** | U | | 0.809 (L) | |
| **PFHpS** | U | | 0.809 (L) | |
| **PFOS** | U | | 0.809 (L) | |
| **PFNS** | U | | 0.809 (L) | |
| **PFDS** | U | | 0.809 (L) | |
| **PFDoS** | U | | 0.809 (L) | |
| **4:2 FTS** | U | | 3.24 (L) | |
| **6:2 FTS** | U | | 2.91 (L) | |
| **8:2 FTS** | U | | 3.24 (L) | |
| **PFOSA** | U | | 0.809 (L) | |
| **N-MeFOSA** | U | | 0.930 (L) | |
| **N-EtFOSA** | U | | 2.02 (L) | |
| **MeFOSAA** | U | | 0.809 (L) | |
| **EtFOSAA** | U | | 0.809 (L) | |
| **N-MeFOSE** | U | | 8.09 (L) | |
| **N-EtFOSE** | U | | 6.07 (L) | |
| **HFPO-DA** | U | | 3.07 (L) | |
| **ADONA** | U | | 3.24 (L) | |
| **9Cl-PF3ONS** | U | | 3.24 (L) | |
| **11Cl-PF3OUdS** | U | | 3.24 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-1_Form1A_FC0L_237S20_SJ2763693.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107055**
**Sample Collection:**
**30-Apr-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-1 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.494 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:32:10 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 20** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.2 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 20.0 | 100 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.75 | 97.5 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.08 | 90.8 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.98 | 89.8 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.44 | 88.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.07 | 101 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.96 | 99.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.84 | 96.9 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.84 | 76.8 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.64 | 96.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.41 | 94.1 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 91.1 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.9 | 105 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.11 | 81.1 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.90 | 69.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.29 | 72.9 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 15.9 | 79.3 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 16.1 | 80.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 69.5 | 69.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 72.5 | 72.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 42.1 | 105 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-1_Form2_FC0L_237S20_SJ2763693.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107066**
**Sample Collection:**
**12-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-2 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.478 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:45:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.35 (L) | |
| **PFPeA** | U | | 1.67 (L) | |
| **PFHxA** | U | | 0.837 (L) | |
| **PFHpA** | U | | 0.837 (L) | |
| **PFOA** | U | | 0.837 (L) | |
| **PFNA** | U | | 0.837 (L) | |
| **PFDA** | U | | 0.837 (L) | |
| **PFUnA** | U | | 0.837 (L) | |
| **PFDoA** | U | | 0.837 (L) | |
| **PFTrDA** | U | | 0.837 (L) | |
| **PFTeDA** | U | | 0.837 (L) | |
| **PFBS** | U | | 0.837 (L) | |
| **PFPeS** | U | | 0.837 (L) | |
| **PFHxS** | U | | 0.837 (L) | |
| **PFHpS** | U | | 0.837 (L) | |
| **PFOS** | U | | 0.837 (L) | |
| **PFNS** | U | | 0.837 (L) | |
| **PFDS** | U | | 0.837 (L) | |
| **PFDoS** | U | | 0.837 (L) | |
| **4:2 FTS** | U | | 3.35 (L) | |
| **6:2 FTS** | J | 6.92 | 3.01 (L) | 5:53 |
| **8:2 FTS** | U | | 3.35 (L) | |
| **PFOSA** | U | | 0.837 (L) | |
| **N-MeFOSA** | U | | 0.963 (L) | |
| **N-EtFOSA** | U | | 2.09 (L) | |
| **MeFOSAA** | U | | 0.837 (L) | |
| **EtFOSAA** | U | | 0.837 (L) | |
| **N-MeFOSE** | U | | 8.37 (L) | |
| **N-EtFOSE** | U | | 6.28 (L) | |
| **HFPO-DA** | U | | 3.18 (L) | |
| **ADONA** | U | | 3.35 (L) | |
| **9Cl-PF3ONS** | U | | 3.35 (L) | |
| **11Cl-PF3OUdS** | U | | 3.35 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-2_Form1A_FC0L_237S21_SJ2763694.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107066**
**Sample Collection:**
**12-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-2 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.478 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:45:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 21** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.7 | 89.3 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.03 | 90.3 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.69 | 86.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.61 | 86.1 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.6 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.5 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.77 | 95.3 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.25 | 85.1 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.70 | 74.0 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.38 | 93.8 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.17 | 91.7 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.04 | 90.4 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 16.9 | 84.6 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.5 | 77.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.5 | 97.7 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.05 | 80.5 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.39 | 63.9 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.72 | 67.2 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 15.2 | 76.0 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.4 | 77.2 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 65.4 | 65.4 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 71.7 | 71.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 35.7 | 89.2 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-2_Form2_FC0L_237S21_SJ2763694.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107088**
**Sample Collection:**
**12-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-3 R |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.508 L |
| **Extraction Date:** | 15-Jul-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:58:04 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_237 S: 22** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.15 (L) | |
| **PFPeA** | U | | 1.57 (L) | |
| **PFHxA** | U | | 0.787 (L) | |
| **PFHpA** | U | | 0.787 (L) | |
| **PFOA** | U | | 0.787 (L) | |
| **PFNA** | U | | 0.787 (L) | |
| **PFDA** | U | | 0.787 (L) | |
| **PFUnA** | U | | 0.787 (L) | |
| **PFDoA** | U | | 0.787 (L) | |
| **PFTrDA** | U | | 0.787 (L) | |
| **PFTeDA** | U | | 0.787 (L) | |
| **PFBS** | U | | 0.787 (L) | |
| **PFPeS** | U | | 0.787 (L) | |
| **PFHxS** | U | | 0.787 (L) | |
| **PFHpS** | U | | 0.787 (L) | |
| **PFOS** | U | | 0.787 (L) | |
| **PFNS** | U | | 0.787 (L) | |
| **PFDS** | U | | 0.787 (L) | |
| **PFDoS** | U | | 0.787 (L) | |
| **4:2 FTS** | U | | 3.15 (L) | |
| **6:2 FTS** | U | | 2.83 (L) | |
| **8:2 FTS** | U | | 3.15 (L) | |
| **PFOSA** | U | | 0.787 (L) | |
| **N-MeFOSA** | U | | 0.905 (L) | |
| **N-EtFOSA** | U | | 1.97 (L) | |
| **MeFOSAA** | U | | 0.787 (L) | |
| **EtFOSAA** | U | | 0.787 (L) | |
| **N-MeFOSE** | U | | 7.87 (L) | |
| **N-EtFOSE** | U | | 5.91 (L) | |
| **HFPO-DA** | U | | 2.99 (L) | |
| **ADONA** | U | | 3.15 (L) | |
| **9Cl-PF3ONS** | U | | 3.15 (L) | |
| **11Cl-PF3OUdS** | U | | 3.15 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-3_Form1A_FC0L_237S22_SJ2763695.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107088**
**Sample Collection:**
**12-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-3 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.508 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:58:04 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 22** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.4 | 88.5 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 18.6 | 93.1 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.38 | 93.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.95 | 89.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.12 | 91.2 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.36 | 87.2 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.55 | 91.0 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.66 | 93.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 3.73 | 74.6 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.02 | 80.3 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.44 | 94.4 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.75 | 87.5 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.42 | 94.2 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.2 | 86.1 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.7 | 78.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.2 | 95.9 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.08 | 80.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.56 | 65.6 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.78 | 67.8 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.4 | 81.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.9 | 79.5 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 69.0 | 69.0 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 73.4 | 73.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 38.4 | 96.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-3_Form2_FC0L_237S22_SJ2763695.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107114**
**Sample Collection:**
**04-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-4 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.493 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:11:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.24 (L) | |
| **PFPeA** | U | | 1.62 (L) | |
| **PFHxA** | U | | 0.811 (L) | |
| **PFHpA** | U | | 0.811 (L) | |
| **PFOA** | U | | 0.811 (L) | |
| **PFNA** | U | | 0.811 (L) | |
| **PFDA** | U | | 0.811 (L) | |
| **PFUnA** | U | | 0.811 (L) | |
| **PFDoA** | U | | 0.811 (L) | |
| **PFTrDA** | U | | 0.811 (L) | |
| **PFTeDA** | U | | 0.811 (L) | |
| **PFBS** | U | | 0.811 (L) | |
| **PFPeS** | U | | 0.811 (L) | |
| **PFHxS** | U | | 0.811 (L) | |
| **PFHpS** | U | | 0.811 (L) | |
| **PFOS** | U | | 0.811 (L) | |
| **PFNS** | U | | 0.811 (L) | |
| **PFDS** | U | | 0.811 (L) | |
| **PFDoS** | U | | 0.811 (L) | |
| **4:2 FTS** | U | | 3.24 (L) | |
| **6:2 FTS** | J | 10.2 | 2.92 (L) | 5:53 |
| **8:2 FTS** | U | | 3.24 (L) | |
| **PFOSA** | U | | 0.811 (L) | |
| **N-MeFOSA** | U | | 0.933 (L) | |
| **N-EtFOSA** | U | | 2.03 (L) | |
| **MeFOSAA** | U | | 0.811 (L) | |
| **EtFOSAA** | U | | 0.811 (L) | |
| **N-MeFOSE** | U | | 8.11 (L) | |
| **N-EtFOSE** | U | | 6.08 (L) | |
| **HFPO-DA** | U | | 3.08 (L) | |
| **ADONA** | U | | 3.24 (L) | |
| **9Cl-PF3ONS** | U | | 3.24 (L) | |
| **11Cl-PF3OUdS** | U | | 3.24 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-4_Form1A_FC0L_237S23_SJ2763696.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107114**
**Sample Collection:**
**04-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-4 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.493 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:11:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 23** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.1 | 87.8 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 94.8 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.59 | 95.9 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.70 | 87.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.68 | 86.8 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.90 | 97.9 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.54 | 90.9 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.31 | 86.3 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.86 | 77.1 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.23 | 92.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.72 | 87.2 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 17.1 | 85.5 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.5 | 77.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.8 | 98.8 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.38 | 83.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.20 | 72.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.21 | 72.1 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.8 | 84.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 16.6 | 83.0 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 73.7 | 73.7 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 77.8 | 77.8 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 39.2 | 97.9 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-4_Form2_FC0L_237S23_SJ2763696.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107103**
**Sample Collection:**
**12-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-6 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.497 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:24:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.22 (L) | |
| **PFPeA** | U | | 1.61 (L) | |
| **PFHxA** | U | | 0.805 (L) | |
| **PFHpA** | U | | 0.805 (L) | |
| **PFOA** | U | | 0.805 (L) | |
| **PFNA** | U | | 0.805 (L) | |
| **PFDA** | U | | 0.805 (L) | |
| **PFUnA** | U | | 0.805 (L) | |
| **PFDoA** | U | | 0.805 (L) | |
| **PFTrDA** | U | | 0.805 (L) | |
| **PFTeDA** | U | | 0.805 (L) | |
| **PFBS** | U | | 0.805 (L) | |
| **PFPeS** | U | | 0.805 (L) | |
| **PFHxS** | U | | 0.805 (L) | |
| **PFHpS** | U | | 0.805 (L) | |
| **PFOS** | U | | 0.805 (L) | |
| **PFNS** | U | | 0.805 (L) | |
| **PFDS** | U | | 0.805 (L) | |
| **PFDoS** | U | | 0.805 (L) | |
| **4:2 FTS** | U | | 3.22 (L) | |
| **6:2 FTS** | U | | 2.90 (L) | |
| **8:2 FTS** | U | | 3.22 (L) | |
| **PFOSA** | U | | 0.805 (L) | |
| **N-MeFOSA** | U | | 0.926 (L) | |
| **N-EtFOSA** | U | | 2.01 (L) | |
| **MeFOSAA** | U | | 0.805 (L) | |
| **EtFOSAA** | U | | 0.805 (L) | |
| **N-MeFOSE** | U | | 8.05 (L) | |
| **N-EtFOSE** | U | | 6.04 (L) | |
| **HFPO-DA** | U | | 3.06 (L) | |
| **ADONA** | U | | 3.22 (L) | |
| **9Cl-PF3ONS** | U | | 3.22 (L) | |
| **11Cl-PF3OUdS** | U | | 3.22 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-6_Form1A_FC0L_237S24_SJ2763697.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107103**
**Sample Collection:**
**12-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-6 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.497 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:24:07 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 24** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.6 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 19.1 | 95.3 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.82 | 98.2 | 5:01 |
| **13C4-PFHpA** | | 10.0 | 8.95 | 89.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.74 | 87.4 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.48 | 89.7 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.00 | 100 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.45 | 89.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.62 | 92.4 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.91 | 78.2 | 8:48 |
| **13C3-PFBS** | | 10.0 | 10.0 | 100 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.17 | 91.7 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.78 | 97.8 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 18.2 | 90.9 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.9 | 84.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.0 | 105 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.86 | 78.6 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.45 | 64.5 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.77 | 67.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 15.8 | 79.1 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.7 | 78.7 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 61.3 | 61.3 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 69.9 | 69.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 38.9 | 97.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-6_Form2_FC0L_237S24_SJ2763697.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107125**
**Sample Collection:**
**12-May-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-7 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:37:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.05 (L) | |
| **PFPeA** | U | | 1.53 (L) | |
| **PFHxA** | U | | 0.763 (L) | |
| **PFHpA** | U | | 0.763 (L) | |
| **PFOA** | U | | 0.763 (L) | |
| **PFNA** | U | | 0.763 (L) | |
| **PFDA** | U | | 0.763 (L) | |
| **PFUnA** | U | | 0.763 (L) | |
| **PFDoA** | U | | 0.763 (L) | |
| **PFTrDA** | U | | 0.763 (L) | |
| **PFTeDA** | U | | 0.763 (L) | |
| **PFBS** | U | | 0.763 (L) | |
| **PFPeS** | U | | 0.763 (L) | |
| **PFHxS** | U | | 0.763 (L) | |
| **PFHpS** | U | | 0.763 (L) | |
| **PFOS** | U | | 0.763 (L) | |
| **PFNS** | U | | 0.763 (L) | |
| **PFDS** | U | | 0.763 (L) | |
| **PFDoS** | U | | 0.763 (L) | |
| **4:2 FTS** | U | | 3.05 (L) | |
| **6:2 FTS** | U | | 2.75 (L) | |
| **8:2 FTS** | U | | 3.05 (L) | |
| **PFOSA** | U | | 0.763 (L) | |
| **N-MeFOSA** | U | | 0.877 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.763 (L) | |
| **EtFOSAA** | U | | 0.763 (L) | |
| **N-MeFOSE** | U | | 7.63 (L) | |
| **N-EtFOSE** | U | | 5.72 (L) | |
| **HFPO-DA** | U | | 2.90 (L) | |
| **ADONA** | U | | 3.05 (L) | |
| **9Cl-PF3ONS** | U | | 3.05 (L) | |
| **11Cl-PF3OUdS** | U | | 3.05 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-7_Form1A_FC0L_237S25_SJ2763698.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107125**
**Sample Collection:**
**12-May-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-7 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.524 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:37:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 25** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.0 | 87.5 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 91.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.46 | 94.6 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.82 | 88.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.53 | 85.3 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.27 | 85.4 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.69 | 93.8 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.82 | 96.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.70 | 94.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.07 | 81.5 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.48 | 94.8 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.84 | 88.4 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.28 | 92.8 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.8 | 89.2 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.0 | 80.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.8 | 99.1 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.48 | 84.8 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.87 | 68.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.21 | 72.1 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.1 | 80.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 16.9 | 84.7 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 65.2 | 65.2 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 72.5 | 72.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 40.1 | 100 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-7_Form2_FC0L_237S25_SJ2763698.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107099**
**Sample Collection:**
**30-Apr-2020**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-8 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.495 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:50:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.23 (L) | |
| **PFPeA** | U | | 1.62 (L) | |
| **PFHxA** | U | | 0.809 (L) | |
| **PFHpA** | U | | 0.809 (L) | |
| **PFOA** | U | | 0.809 (L) | |
| **PFNA** | U | | 0.809 (L) | |
| **PFDA** | U | | 0.809 (L) | |
| **PFUnA** | U | | 0.809 (L) | |
| **PFDoA** | U | | 0.809 (L) | |
| **PFTrDA** | U | | 0.809 (L) | |
| **PFTeDA** | U | | 0.809 (L) | |
| **PFBS** | U | | 0.809 (L) | |
| **PFPeS** | U | | 0.809 (L) | |
| **PFHxS** | U | | 0.809 (L) | |
| **PFHpS** | U | | 0.809 (L) | |
| **PFOS** | U | | 0.809 (L) | |
| **PFNS** | U | | 0.809 (L) | |
| **PFDS** | U | | 0.809 (L) | |
| **PFDoS** | U | | 0.809 (L) | |
| **4:2 FTS** | U | | 3.23 (L) | |
| **6:2 FTS** | U | | 2.91 (L) | |
| **8:2 FTS** | U | | 3.23 (L) | |
| **PFOSA** | U | | 0.809 (L) | |
| **N-MeFOSA** | U | | 0.930 (L) | |
| **N-EtFOSA** | U | | 2.02 (L) | |
| **MeFOSAA** | U | | 0.809 (L) | |
| **EtFOSAA** | U | | 0.809 (L) | |
| **N-MeFOSE** | U | | 8.09 (L) | |
| **N-EtFOSE** | U | | 6.06 (L) | |
| **HFPO-DA** | U | | 3.07 (L) | |
| **ADONA** | U | | 3.23 (L) | |
| **9Cl-PF3ONS** | U | | 3.23 (L) | |
| **11Cl-PF3OUdS** | U | | 3.23 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-8_Form1A_FC0L_237S26_SJ2763699.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**392789107099**
**Sample Collection:**
**30-Apr-2020**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-8 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.495 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 04:50:09 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 26** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.6 | 88.9 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 92.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.67 | 96.7 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.03 | 90.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.77 | 87.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.33 | 86.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.86 | 97.2 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.60 | 92.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.43 | 88.7 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.03 | 80.6 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.98 | 99.8 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.11 | 91.1 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.0 | 100 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.3 | 86.4 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.4 | 82.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.3 | 102 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.73 | 77.3 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.24 | 62.4 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.80 | 68.0 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.7 | 83.7 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.2 | 76.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 61.0 | 61.0 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 69.1 | 69.1 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 40.4 | 101 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-8_Form2_FC0L_237S26_SJ2763699.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-DIPPER-01-051220**
**Sample Collection:**
**12-May-2020 13:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-9 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:03:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 2.93 (L) | |
| **PFPeA** | U | | 1.46 (L) | |
| **PFHxA** | U | | 0.731 (L) | |
| **PFHpA** | U | | 0.731 (L) | |
| **PFOA** | U | | 0.731 (L) | |
| **PFNA** | U | | 0.731 (L) | |
| **PFDA** | U | | 0.731 (L) | |
| **PFUnA** | U | | 0.731 (L) | |
| **PFDoA** | U | | 0.731 (L) | |
| **PFTrDA** | U | | 0.731 (L) | |
| **PFTeDA** | U | | 0.731 (L) | |
| **PFBS** | U | | 0.731 (L) | |
| **PFPeS** | U | | 0.731 (L) | |
| **PFHxS** | U | | 0.731 (L) | |
| **PFHpS** | U | | 0.731 (L) | |
| **PFOS** | U | | 0.731 (L) | |
| **PFNS** | U | | 0.731 (L) | |
| **PFDS** | U | | 0.731 (L) | |
| **PFDoS** | U | | 0.731 (L) | |
| **4:2 FTS** | U | | 2.93 (L) | |
| **6:2 FTS** | U | | 2.63 (L) | |
| **8:2 FTS** | U | | 2.93 (L) | |
| **PFOSA** | U | | 0.731 (L) | |
| **N-MeFOSA** | U | | 0.841 (L) | |
| **N-EtFOSA** | U | | 1.83 (L) | |
| **MeFOSAA** | U | | 0.731 (L) | |
| **EtFOSAA** | U | | 0.731 (L) | |
| **N-MeFOSE** | U | | 7.31 (L) | |
| **N-EtFOSE** | U | | 5.49 (L) | |
| **HFPO-DA** | U | | 2.78 (L) | |
| **ADONA** | U | | 2.93 (L) | |
| **9Cl-PF3ONS** | U | | 2.93 (L) | |
| **11Cl-PF3OUdS** | U | | 2.93 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-9_Form1A_FC0L_237S27_SJ2763700.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-DIPPER-01-051220**
**Sample Collection:**
**12-May-2020 13:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-9 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.547 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:03:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 27** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 33.8 | 84.6 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 17.5 | 87.4 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 8.82 | 88.2 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.47 | 84.7 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.19 | 81.9 | 6:10 |
| **13C9-PFNA** | | 5.00 | 3.98 | 79.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.3 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.62 | 92.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.23 | 84.5 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.54 | 70.8 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.22 | 92.2 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.53 | 85.3 | 6:16 |
| **13C8-PFOS** | | 10.0 | 8.91 | 89.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 16.2 | 81.1 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.4 | 76.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.8 | 89.2 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 6.72 | 67.2 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 5.69 | 56.9 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 5.82 | 58.2 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 14.2 | 70.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 12.8 | 64.1 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 50.4 | 50.4 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 57.4 | 57.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 39.1 | 97.7 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-9_Form2_FC0L_237S27_SJ2763700.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-HOSECLAMP-01-051220**
**Sample Collection:**
**12-May-2020 12:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-10 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:16:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.06 (L) | |
| **PFPeA** | U | | 1.53 (L) | |
| **PFHxA** | U | | 0.765 (L) | |
| **PFHpA** | U | | 0.765 (L) | |
| **PFOA** | U | | 0.765 (L) | |
| **PFNA** | U | | 0.765 (L) | |
| **PFDA** | U | | 0.765 (L) | |
| **PFUnA** | U | | 0.765 (L) | |
| **PFDoA** | U | | 0.765 (L) | |
| **PFTrDA** | U | | 0.765 (L) | |
| **PFTeDA** | U | | 0.765 (L) | |
| **PFBS** | U | | 0.765 (L) | |
| **PFPeS** | U | | 0.765 (L) | |
| **PFHxS** | U | | 0.765 (L) | |
| **PFHpS** | U | | 0.765 (L) | |
| **PFOS** | U | | 0.765 (L) | |
| **PFNS** | U | | 0.765 (L) | |
| **PFDS** | U | | 0.765 (L) | |
| **PFDoS** | U | | 0.765 (L) | |
| **4:2 FTS** | U | | 3.06 (L) | |
| **6:2 FTS** | U | | 2.75 (L) | |
| **8:2 FTS** | U | | 3.06 (L) | |
| **PFOSA** | U | | 0.765 (L) | |
| **N-MeFOSA** | U | | 0.880 (L) | |
| **N-EtFOSA** | U | | 1.91 (L) | |
| **MeFOSAA** | U | | 0.765 (L) | |
| **EtFOSAA** | U | | 0.765 (L) | |
| **N-MeFOSE** | U | | 7.65 (L) | |
| **N-EtFOSE** | U | | 5.74 (L) | |
| **HFPO-DA** | U | | 2.91 (L) | |
| **ADONA** | U | | 3.06 (L) | |
| **9Cl-PF3ONS** | U | | 3.06 (L) | |
| **11Cl-PF3OUdS** | U | | 3.06 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-10_Form1A_FC0L_237S28_SJ2763701.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-HOSECLAMP-01-051220**
**Sample Collection:**
**12-May-2020 12:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-10 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.523 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:16:12 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 28** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.8 | 87.0 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 19.0 | 95.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.74 | 97.4 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.16 | 91.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.37 | 83.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.07 | 81.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.80 | 96.1 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.62 | 92.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.57 | 91.5 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.01 | 80.1 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.25 | 92.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.89 | 88.9 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.09 | 90.9 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.6 | 88.2 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.7 | 78.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.9 | 94.7 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.85 | 78.5 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.42 | 64.2 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.70 | 67.0 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 14.4 | 71.8 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 14.1 | 70.4 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 57.5 | 57.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 66.2 | 66.2 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 40.6 | 101 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-10_Form2_FC0L_237S28_SJ2763701.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-ZIPLOCK-01-051220**
**Sample Collection:**
**12-May-2020 12:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-11 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.536 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:29:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 2.98 (L) | |
| **PFPeA** | U | | 1.49 (L) | |
| **PFHxA** | U | | 0.746 (L) | |
| **PFHpA** | U | | 0.746 (L) | |
| **PFOA** | U | | 0.746 (L) | |
| **PFNA** | U | | 0.746 (L) | |
| **PFDA** | U | | 0.746 (L) | |
| **PFUnA** | U | | 0.746 (L) | |
| **PFDoA** | U | | 0.746 (L) | |
| **PFTrDA** | U | | 0.746 (L) | |
| **PFTeDA** | U | | 0.746 (L) | |
| **PFBS** | U | | 0.746 (L) | |
| **PFPeS** | U | | 0.746 (L) | |
| **PFHxS** | U | | 0.746 (L) | |
| **PFHpS** | U | | 0.746 (L) | |
| **PFOS** | U | | 0.746 (L) | |
| **PFNS** | U | | 0.746 (L) | |
| **PFDS** | U | | 0.746 (L) | |
| **PFDoS** | U | | 0.746 (L) | |
| **4:2 FTS** | U | | 2.98 (L) | |
| **6:2 FTS** | U | | 2.69 (L) | |
| **8:2 FTS** | U | | 2.98 (L) | |
| **PFOSA** | U | | 0.746 (L) | |
| **N-MeFOSA** | U | | 0.858 (L) | |
| **N-EtFOSA** | U | | 1.86 (L) | |
| **MeFOSAA** | U | | 0.746 (L) | |
| **EtFOSAA** | U | | 0.746 (L) | |
| **N-MeFOSE** | U | | 7.46 (L) | |
| **N-EtFOSE** | U | | 5.59 (L) | |
| **HFPO-DA** | U | | 2.83 (L) | |
| **ADONA** | U | | 2.98 (L) | |
| **9Cl-PF3ONS** | U | | 2.98 (L) | |
| **11Cl-PF3OUdS** | U | | 2.98 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-11_Form1A_FC0L_237S29_SJ2763702.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-ZIPLOCK-01-051220**
**Sample Collection:**
**12-May-2020 12:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-11 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.536 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:29:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 29** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.5 | 88.7 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.8 | 93.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.59 | 95.9 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.18 | 91.8 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.89 | 88.9 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.3 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.59 | 91.8 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.46 | 89.2 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.35 | 87.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.60 | 72.1 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.85 | 98.5 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.23 | 92.3 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.67 | 96.7 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 19.2 | 96.2 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.1 | 85.6 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 22.2 | 111 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.97 | 79.7 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 5.23 | 52.3 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 5.12 | 51.2 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.3 | 81.4 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 16.1 | 80.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 61.3 | 61.3 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 68.3 | 68.3 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 40.3 | 101 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-11_Form2_FC0L_237S29_SJ2763702.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-SHOVEL-01-051220**
**Sample Collection:**
**12-May-2020 13:15**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-12 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.516 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:42:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.10 (L) | |
| **PFPeA** | U | | 1.55 (L) | |
| **PFHxA** | U | | 0.775 (L) | |
| **PFHpA** | U | | 0.775 (L) | |
| **PFOA** | U | | 0.775 (L) | |
| **PFNA** | U | | 0.775 (L) | |
| **PFDA** | U | | 0.775 (L) | |
| **PFUnA** | U | | 0.775 (L) | |
| **PFDoA** | U | | 0.775 (L) | |
| **PFTrDA** | U | | 0.775 (L) | |
| **PFTeDA** | U | | 0.775 (L) | |
| **PFBS** | U | | 0.775 (L) | |
| **PFPeS** | U | | 0.775 (L) | |
| **PFHxS** | U | | 0.775 (L) | |
| **PFHpS** | U | | 0.775 (L) | |
| **PFOS** | U | | 0.775 (L) | |
| **PFNS** | U | | 0.775 (L) | |
| **PFDS** | U | | 0.775 (L) | |
| **PFDoS** | U | | 0.775 (L) | |
| **4:2 FTS** | U | | 3.10 (L) | |
| **6:2 FTS** | U | | 2.79 (L) | |
| **8:2 FTS** | U | | 3.10 (L) | |
| **PFOSA** | U | | 0.775 (L) | |
| **N-MeFOSA** | U | | 0.891 (L) | |
| **N-EtFOSA** | U | | 1.94 (L) | |
| **MeFOSAA** | U | | 0.775 (L) | |
| **EtFOSAA** | U | | 0.775 (L) | |
| **N-MeFOSE** | U | | 7.75 (L) | |
| **N-EtFOSE** | U | | 5.81 (L) | |
| **HFPO-DA** | U | | 2.95 (L) | |
| **ADONA** | U | | 3.10 (L) | |
| **9Cl-PF3ONS** | U | | 3.10 (L) | |
| **11Cl-PF3OUdS** | U | | 3.10 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-12_Form1A_FC0L_237S30_SJ2763703.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**EQ-SHOVEL-01-051220**
**Sample Collection:**
**12-May-2020 13:15**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-12 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.516 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:42:22 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 30** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.4 | 86.0 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 17.8 | 89.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.04 | 90.4 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.73 | 87.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.13 | 81.3 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.08 | 81.7 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.39 | 87.8 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.47 | 89.4 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.71 | 94.3 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.48 | 69.6 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.07 | 90.7 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.47 | 84.7 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.11 | 91.1 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 16.2 | 81.2 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.6 | 78.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 16.8 | 84.0 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.27 | 72.7 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.30 | 63.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.78 | 67.8 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 17.2 | 86.1 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 14.2 | 70.9 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 60.8 | 60.8 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 67.1 | 67.1 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 37.5 | 93.8 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-12_Form2_FC0L_237S30_SJ2763703.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-AUGER-01-051220**
**Sample Collection:**
**12-May-2020 13:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-13 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.508 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:55:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.15 (L) | |
| **PFPeA** | U | | 1.58 (L) | |
| **PFHxA** | U | | 0.788 (L) | |
| **PFHpA** | U | | 0.788 (L) | |
| **PFOA** | U | | 0.788 (L) | |
| **PFNA** | U | | 0.788 (L) | |
| **PFDA** | U | | 0.788 (L) | |
| **PFUnA** | U | | 0.788 (L) | |
| **PFDoA** | U | | 0.788 (L) | |
| **PFTrDA** | U | | 0.788 (L) | |
| **PFTeDA** | U | | 0.788 (L) | |
| **PFBS** | U | | 0.788 (L) | |
| **PFPeS** | U | | 0.788 (L) | |
| **PFHxS** | U | | 0.788 (L) | |
| **PFHpS** | U | | 0.788 (L) | |
| **PFOS** | U | | 0.788 (L) | |
| **PFNS** | U | | 0.788 (L) | |
| **PFDS** | U | | 0.788 (L) | |
| **PFDoS** | U | | 0.788 (L) | |
| **4:2 FTS** | U | | 3.15 (L) | |
| **6:2 FTS** | U | | 2.84 (L) | |
| **8:2 FTS** | U | | 3.15 (L) | |
| **PFOSA** | U | | 0.788 (L) | |
| **N-MeFOSA** | U | | 0.906 (L) | |
| **N-EtFOSA** | U | | 1.97 (L) | |
| **MeFOSAA** | U | | 0.788 (L) | |
| **EtFOSAA** | U | | 0.788 (L) | |
| **N-MeFOSE** | U | | 7.88 (L) | |
| **N-EtFOSE** | U | | 5.91 (L) | |
| **HFPO-DA** | U | | 2.99 (L) | |
| **ADONA** | U | | 3.15 (L) | |
| **9Cl-PF3ONS** | U | | 3.15 (L) | |
| **11Cl-PF3OUdS** | U | | 3.15 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-13_Form1A_FC0L_237S31_SJ2763704.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-AUGER-01-051220**
**Sample Collection:**
**12-May-2020 13:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-13 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.508 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 05:55:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 34.3 | 85.7 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 18.5 | 92.7 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.20 | 92.0 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.06 | 90.6 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.70 | 87.0 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.26 | 85.2 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.74 | 94.7 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.60 | 91.9 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.16 | 83.2 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.44 | 68.8 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.03 | 90.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.58 | 85.8 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.56 | 95.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 16.7 | 83.3 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 15.9 | 79.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.5 | 102 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.61 | 76.1 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.65 | 66.5 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.09 | 70.9 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 14.1 | 70.3 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.7 | 78.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 60.6 | 60.6 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 67.8 | 67.8 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 37.7 | 94.1 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-13_Form2_FC0L_237S31_SJ2763704.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-PAIL-01-051220**
**Sample Collection:**
**12-May-2020 13:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-14 R |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.540 L |
| **Extraction Date:** | 15-Jul-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:08:17 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_237 S: 32** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 2.96 (L) | |
| **PFPeA** | U | | 1.48 (L) | |
| **PFHxA** | U | | 0.741 (L) | |
| **PFHpA** | U | | 0.741 (L) | |
| **PFOA** | U | | 0.741 (L) | |
| **PFNA** | U | | 0.741 (L) | |
| **PFDA** | U | | 0.741 (L) | |
| **PFUnA** | U | | 0.741 (L) | |
| **PFDoA** | U | | 0.741 (L) | |
| **PFTrDA** | U | | 0.741 (L) | |
| **PFTeDA** | U | | 0.741 (L) | |
| **PFBS** | U | | 0.741 (L) | |
| **PFPeS** | U | | 0.741 (L) | |
| **PFHxS** | U | | 0.741 (L) | |
| **PFHpS** | U | | 0.741 (L) | |
| **PFOS** | U | | 0.741 (L) | |
| **PFNS** | U | | 0.741 (L) | |
| **PFDS** | U | | 0.741 (L) | |
| **PFDoS** | U | | 0.741 (L) | |
| **4:2 FTS** | U | | 2.96 (L) | |
| **6:2 FTS** | U | | 2.67 (L) | |
| **8:2 FTS** | U | | 2.96 (L) | |
| **PFOSA** | U | | 0.741 (L) | |
| **N-MeFOSA** | U | | 0.852 (L) | |
| **N-EtFOSA** | U | | 1.85 (L) | |
| **MeFOSAA** | U | | 0.741 (L) | |
| **EtFOSAA** | U | | 0.741 (L) | |
| **N-MeFOSE** | U | | 7.41 (L) | |
| **N-EtFOSE** | U | | 5.56 (L) | |
| **HFPO-DA** | U | | 2.82 (L) | |
| **ADONA** | U | | 2.96 (L) | |
| **9Cl-PF3ONS** | U | | 2.96 (L) | |
| **11Cl-PF3OUdS** | U | | 2.96 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-14_Form1A_FC0L_237S32_SJ2763705.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**EQ-PAIL-01-051220**
**Sample Collection:**
**12-May-2020 13:45**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-14 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.540 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:08:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 32** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.8 | 89.4 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 19.2 | 96.0 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.38 | 93.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.04 | 90.4 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.55 | 85.5 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.48 | 89.7 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.02 | 100 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.68 | 93.6 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.60 | 92.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.77 | 75.5 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.46 | 94.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.87 | 88.7 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.59 | 95.9 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 17.7 | 88.3 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.3 | 81.3 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.4 | 102 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.17 | 71.7 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.20 | 62.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 6.31 | 63.1 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 15.4 | 77.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.5 | 77.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 50.5 | 50.5 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 59.7 | 59.7 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 40.1 | 100 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-14_Form2_FC0L_237S32_SJ2763705.html; Workgroup: WG72779; Design ID: 3769 ]

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 17:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-15 R |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.453 L |
| **Extraction Date:** | 15-Jul-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:57:28 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_237 S: 45** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | | 701 | 3.53 (L) | 1:49 |
| **PFPeA** | | 111 | 1.77 (L) | 4:24 |
| **PFHxA** | | 229 | 0.883 (L) | 5:01 |
| **PFHpA** | | 257 | 0.883 (L) | 5:28 |
| **PFOA** | E | | | |
| **PFNA** | | 13.7 | 0.883 (L) | |
| **PFDA** | | 14.7 | 0.883 (L) | 7:33 |
| **PFUnA** | U | | 0.883 (L) | |
| **PFDoA** | U | | 0.883 (L) | |
| **PFTrDA** | U | | 0.883 (L) | |
| **PFTeDA** | U | | 0.883 (L) | |
| **PFBS** | | 68.4 | 0.883 (L) | 4:58 |
| **PFPeS** | | 86.5 | 0.883 (L) | 5:29 |
| **PFHxS** | | 202 | 0.883 (L) | |
| **PFHpS** | | 87.1 | 0.883 (L) | 7:08 |
| **PFOS** | E | | | |
| **PFNS** | J | 1.10 | 0.883 (L) | 7:57 |
| **PFDS** | U | | 0.883 (L) | |
| **PFDoS** | U | | 0.883 (L) | |
| **4:2 FTS** | U | | 3.53 (L) | |
| **6:2 FTS** | U | | 3.18 (L) | |
| **8:2 FTS** | U | | 3.53 (L) | |
| **PFOSA** | | 49.9 | 0.883 (L) | |
| **N-MeFOSA** | U | | 1.02 (L) | |
| **N-EtFOSA** | U | | 2.21 (L) | |
| **MeFOSAA** | U | | 0.883 (L) | |
| **EtFOSAA** | | 91.8 | 0.883 (L) | |
| **N-MeFOSE** | U | | 8.83 (L) | |
| **N-EtFOSE** | U | | 6.62 (L) | |
| **HFPO-DA** | U | | 3.36 (L) | |
| **ADONA** | U | | 3.53 (L) | |
| **9Cl-PF3ONS** | U | | 3.53 (L) | |
| **11Cl-PF3OUdS** | U | | 3.53 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-15_Form1A_FC0L_237S45_SJ2763768.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 17:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-15 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.453 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:57:28 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 45** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng absolute | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 16.7 | 41.7 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.0 | 89.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.33 | 93.3 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 10.6 | 106 | 5:28 |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | | 5.00 | 4.19 | 83.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.48 | 89.6 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.61 | 92.3 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.30 | 86.1 | 8:08 |
| **13C2-PFTeDA** | | 5.00 | 3.62 | 72.5 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.29 | 92.9 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.43 | 84.3 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 19.9 | 99.7 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 12.0 | 59.9 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 16.4 | 81.8 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 14.8 | 148 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 13.2 | 132 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 13.5 | 135 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 24.8 | 124 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 28.1 | 141 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 102 | 102 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 124 | 124 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 36.7 | 91.7 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-15_Form2_FC0L_237S45_SJ2763768.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 17:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-15 RN |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.453 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 07:52:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng/L | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | D | 2260 | 4.42 (L) | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 4810 | 4.42 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 17:30**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-15 RN |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.453 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 07:52:18 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 40** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | D | 10.0 | 8.12 | 81.2 | 6:10 |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | X | | | | |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-15_Form2_FC0L_237S40_SJ2763763.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 18:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-16 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.495 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:21:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
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| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | H | 422 | 3.23 (L) | 1:49 |
| **PFPeA** | | 45.7 | 1.62 (L) | 4:24 |
| **PFHxA** | | 87.3 | 0.808 (L) | 5:00 |
| **PFHpA** | | 76.1 | 0.808 (L) | 5:28 |
| **PFOA** | | 658 | 0.808 (L) | |
| **PFNA** | | 4.69 | 0.808 (L) | |
| **PFDA** | | 5.28 | 0.808 (L) | 7:32 |
| **PFUnA** | U | | 0.808 (L) | |
| **PFDoA** | U | | 0.808 (L) | |
| **PFTrDA** | U | | 0.808 (L) | |
| **PFTeDA** | U | | 0.808 (L) | |
| **PFBS** | | 25.0 | 0.808 (L) | 4:58 |
| **PFPeS** | | 25.9 | 0.808 (L) | 5:29 |
| **PFHxS** | | 63.4 | 0.808 (L) | |
| **PFHpS** | | 20.1 | 0.808 (L) | 7:07 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.808 (L) | |
| **PFDS** | U | | 0.808 (L) | |
| **PFDoS** | U | | 0.808 (L) | |
| **4:2 FTS** | U | | 3.23 (L) | |
| **6:2 FTS** | U | | 2.91 (L) | |
| **8:2 FTS** | U | | 3.23 (L) | |
| **PFOSA** | | 12.0 | 0.808 (L) | |
| **N-MeFOSA** | U | | 0.929 (L) | |
| **N-EtFOSA** | U | | 2.02 (L) | |
| **MeFOSAA** | U | | 0.808 (L) | |
| **EtFOSAA** | | 10.0 | 0.808 (L) | |
| **N-MeFOSE** | U | | 8.08 (L) | |
| **N-EtFOSE** | U | | 6.06 (L) | |
| **HFPO-DA** | U | | 3.07 (L) | |
| **ADONA** | U | | 3.23 (L) | |
| **9Cl-PF3ONS** | U | | 3.23 (L) | |
| **11Cl-PF3OUdS** | U | | 3.23 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data; H = concentration is estimated.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-16_Form1A_FC0L_237S33_SJ2763706.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 18:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-16 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.495 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:21:14 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 33** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 3.11 | 7.77 | 1:48 |
| **13C5-PFPeA** | V | 20.0 | 7.43 | 37.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 7.17 | 71.7 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.05 | 90.5 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.78 | 87.8 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.69 | 93.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.90 | 98.0 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.95 | 99.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.75 | 95.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.52 | 70.4 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.71 | 97.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.76 | 97.6 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.79 | 97.9 | 7:37 |
| **13C2-4:2 FTS** | V | 20.0 | 9.46 | 47.3 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 12.6 | 63.2 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.8 | 93.9 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 11.4 | 114 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 11.2 | 112 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 11.3 | 113 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 19.6 | 97.9 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 20.9 | 104 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 84.9 | 84.9 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 91.6 | 91.6 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 26.2 | 65.4 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-16_Form2_FC0L_237S33_SJ2763706.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 18:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-16 RN |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.495 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 21-Jul-2020 **Time:** 15:45:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_243 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_243 S: 26 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 1340 | 4.04 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-16_Form1A_FC0L_243S31_SJ2764771.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC12-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 18:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-16 RN |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.495 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 21-Jul-2020 **Time:** 15:45:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_243 S: 31** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_243 S: 26 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | X | | | | |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-16_Form2_FC0L_243S31_SJ2764771.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 18:30**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-17 R |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.530 L |
| **Extraction Date:** | 15-Jul-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:34:11 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_237 S: 34** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | H | 67.6 | 3.02 (L) | 1:48 |
| **PFPeA** | | 5.21 | 1.51 (L) | 4:24 |
| **PFHxA** | | 3.76 | 0.755 (L) | 5:01 |
| **PFHpA** | | 2.03 | 0.755 (L) | 5:28 |
| **PFOA** | | 6.01 | 0.755 (L) | |
| **PFNA** | J | 0.772 | 0.755 (L) | |
| **PFDA** | U | | 0.755 (L) | |
| **PFUnA** | U | | 0.755 (L) | |
| **PFDoA** | U | | 0.755 (L) | |
| **PFTrDA** | U | | 0.755 (L) | |
| **PFTeDA** | U | | 0.755 (L) | |
| **PFBS** | | 1.99 | 0.755 (L) | 4:58 |
| **PFPeS** | U | | 0.755 (L) | |
| **PFHxS** | | 2.64 | 0.755 (L) | |
| **PFHpS** | U | | 0.755 (L) | |
| **PFOS** | | 2.46 | 0.755 (L) | |
| **PFNS** | U | | 0.755 (L) | |
| **PFDS** | U | | 0.755 (L) | |
| **PFDoS** | U | | 0.755 (L) | |
| **4:2 FTS** | U | | 3.02 (L) | |
| **6:2 FTS** | J | 3.25 | 2.72 (L) | 5:53 |
| **8:2 FTS** | U | | 3.02 (L) | |
| **PFOSA** | U | | 0.755 (L) | |
| **N-MeFOSA** | U | | 0.869 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | U | | 0.755 (L) | |
| **EtFOSAA** | U | | 0.755 (L) | |
| **N-MeFOSE** | U | | 7.55 (L) | |
| **N-EtFOSE** | U | | 5.67 (L) | |
| **HFPO-DA** | U | | 2.87 (L) | |
| **ADONA** | U | | 3.02 (L) | |
| **9Cl-PF3ONS** | U | | 3.02 (L) | |
| **11Cl-PF3OUdS** | U | | 3.02 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; H = concentration is estimated.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-17_Form1A_FC0L_237S34_SJ2763707.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC14-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 18:30**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-17 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.530 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:34:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 34** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 1.92 | 4.81 | 1:48 |
| **13C5-PFPeA** | V | 20.0 | 8.99 | 44.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 7.88 | 78.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.20 | 82.0 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.27 | 82.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.23 | 84.6 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.83 | 96.7 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.79 | 95.7 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.55 | 91.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.48 | 69.7 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.29 | 92.9 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.77 | 87.7 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.92 | 99.2 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 13.3 | 66.4 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 13.9 | 69.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 18.3 | 91.3 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.87 | 88.7 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 8.82 | 88.2 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 8.51 | 85.1 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.9 | 84.5 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 16.5 | 82.6 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 64.4 | 64.4 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 74.9 | 74.9 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 30.3 | 75.7 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-17_Form2_FC0L_237S34_SJ2763707.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 19:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-18 R |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.535 L |
| **Extraction Date:** | 15-Jul-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:47:17 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_237 S: 35** |
| **Dilution Factor:** | N/A | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | H | 332 | 2.99 (L) | 1:48 |
| **PFPeA** | | 36.7 | 1.49 (L) | 4:24 |
| **PFHxA** | | 64.3 | 0.747 (L) | 5:01 |
| **PFHpA** | | 61.7 | 0.747 (L) | 5:28 |
| **PFOA** | | 520 | 0.747 (L) | |
| **PFNA** | | 4.24 | 0.747 (L) | |
| **PFDA** | | 3.95 | 0.747 (L) | 7:32 |
| **PFUnA** | U | | 0.747 (L) | |
| **PFDoA** | U | | 0.747 (L) | |
| **PFTrDA** | U | | 0.747 (L) | |
| **PFTeDA** | U | | 0.747 (L) | |
| **PFBS** | | 19.1 | 0.747 (L) | 4:58 |
| **PFPeS** | | 20.2 | 0.747 (L) | 5:29 |
| **PFHxS** | | 52.9 | 0.747 (L) | |
| **PFHpS** | | 15.6 | 0.747 (L) | 7:07 |
| **PFOS** | | 1230 | 0.747 (L) | |
| **PFNS** | U | | 0.747 (L) | |
| **PFDS** | U | | 0.747 (L) | |
| **PFDoS** | U | | 0.747 (L) | |
| **4:2 FTS** | U | | 2.99 (L) | |
| **6:2 FTS** | U | | 2.69 (L) | |
| **8:2 FTS** | U | | 2.99 (L) | |
| **PFOSA** | | 11.0 | 0.747 (L) | |
| **N-MeFOSA** | U | | 0.860 (L) | |
| **N-EtFOSA** | U | | 1.87 (L) | |
| **MeFOSAA** | U | | 0.747 (L) | |
| **EtFOSAA** | | 7.98 | 0.747 (L) | |
| **N-MeFOSE** | U | | 7.47 (L) | |
| **N-EtFOSE** | U | | 5.61 (L) | |
| **HFPO-DA** | U | | 2.84 (L) | |
| **ADONA** | U | | 2.99 (L) | |
| **9Cl-PF3ONS** | U | | 2.99 (L) | |
| **11Cl-PF3OUdS** | U | | 2.99 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; H = concentration is estimated.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-18_Form1A_FC0L_237S35_SJ2763708.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC21-WAT-BULK-01-042820**
**Sample Collection:**
**28-Apr-2020 19:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-18 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.535 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 06:47:17 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 35** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 2.98 | 7.45 | 1:48 |
| **13C5-PFPeA** | V | 20.0 | 8.51 | 42.5 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 7.90 | 79.0 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.82 | 88.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.57 | 85.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.10 | 82.0 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.57 | 91.4 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.90 | 98.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.71 | 94.2 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.58 | 71.5 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.39 | 93.9 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 8.82 | 88.2 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.28 | 92.8 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 10.9 | 54.6 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 13.5 | 67.4 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.0 | 84.8 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 10.5 | 105 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 10.2 | 102 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 10.0 | 100 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 18.2 | 91.2 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 18.9 | 94.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 84.8 | 84.8 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 87.4 | 87.4 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 27.3 | 68.2 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-18_Form2_FC0L_237S35_SJ2763708.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-19 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.529 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:44:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | H | 566 | 4.88 (S) | 1:49 |
| **PFPeA** | | 130 | 1.51 (L) | 4:24 |
| **PFHxA** | | 272 | 0.757 (L) | 5:00 |
| **PFHpA** | | 301 | 0.757 (L) | 5:28 |
| **PFOA** | E | | | |
| **PFNA** | | 16.4 | 0.757 (L) | |
| **PFDA** | | 17.0 | 0.757 (L) | 7:33 |
| **PFUnA** | U | | 0.757 (L) | |
| **PFDoA** | U | | 0.757 (L) | |
| **PFTrDA** | U | | 0.757 (L) | |
| **PFTeDA** | U | | 0.757 (L) | |
| **PFBS** | | 78.7 | 0.757 (L) | 4:57 |
| **PFPeS** | | 99.5 | 0.757 (L) | 5:29 |
| **PFHxS** | | 242 | 0.757 (L) | |
| **PFHpS** | | 110 | 0.757 (L) | 7:07 |
| **PFOS** | E | | | |
| **PFNS** | J | 1.29 | 0.757 (L) | 7:57 |
| **PFDS** | U | | 0.757 (L) | |
| **PFDoS** | U | | 0.757 (L) | |
| **4:2 FTS** | U | | 3.03 (L) | |
| **6:2 FTS** | U | | 2.72 (L) | |
| **8:2 FTS** | U | | 3.03 (L) | |
| **PFOSA** | | 46.3 | 0.757 (L) | |
| **N-MeFOSA** | U | | 0.870 (L) | |
| **N-EtFOSA** | U | | 1.89 (L) | |
| **MeFOSAA** | U | | 0.757 (L) | |
| **EtFOSAA** | | 78.2 | 0.757 (L) | |
| **N-MeFOSE** | U | | 7.57 (L) | |
| **N-EtFOSE** | U | | 5.68 (L) | |
| **HFPO-DA** | U | | 2.88 (L) | |
| **ADONA** | U | | 3.03 (L) | |
| **9Cl-PF3ONS** | U | | 3.03 (L) | |
| **11Cl-PF3OUdS** | U | | 3.03 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification; E = exceeds calibrated linear range, see dilution data; H = concentration is estimated.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-19_Form1A_FC0L_237S44_SJ2763767.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-19 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.529 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:44:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 44** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 0.690 | 1.73 | 1:48 |
| **13C5-PFPeA** | V | 20.0 | 3.24 | 16.2 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 5.70 | 57.0 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 11.1 | 111 | 5:28 |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | | 5.00 | 4.73 | 94.7 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.99 | 99.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 5.48 | 110 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 5.65 | 113 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 4.35 | 87.0 | 8:48 |
| **13C3-PFBS** | | 10.0 | 10.9 | 109 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 9.92 | 99.2 | 6:16 |
| **13C8-PFOS** | | 10.0 | 11.0 | 110 | 7:37 |
| **13C2-4:2 FTS** | V | 20.0 | 6.41 | 32.1 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 12.6 | 63.1 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 19.5 | 97.6 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 18.9 | 189 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 19.2 | 192 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 18.6 | 186 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 28.7 | 144 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 32.5 | 163 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 165 | 165 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 177 | 177 | 10:18 |
| **13C3-HFPO-DA** | V | 40.0 | 18.4 | 46.0 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-19_Form2_FC0L_237S44_SJ2763767.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:00**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| | | **Lab Sample I.D.:** | L33068-19 RN |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.529 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:05:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | D | 2450 | 3.78 (L) | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 5240 | 3.78 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-19_Form1A_FC0L_237S41_SJ2763764.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC3-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:00**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-19 RN |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.529 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:05:23 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 41** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | D | 10.0 | 9.35 | 93.5 | 6:10 |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | X | | | | |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

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Report Filename: PFC_FC_LC_PFAS_L33068-19_Form2_FC0L_237S41_SJ2763764.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-20 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:31:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng/L | | |

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Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | H | 318 | 3.09 (L) | 1:49 |
| **PFPeA** | | 40.6 | 1.54 (L) | 4:24 |
| **PFHxA** | | 78.1 | 0.772 (L) | 5:00 |
| **PFHpA** | | 73.8 | 0.772 (L) | 5:28 |
| **PFOA** | | 670 | 0.772 (L) | |
| **PFNA** | | 5.88 | 0.772 (L) | |
| **PFDA** | | 6.06 | 0.772 (L) | 7:32 |
| **PFUnA** | U | | 0.772 (L) | |
| **PFDoA** | U | | 0.772 (L) | |
| **PFTrDA** | U | | 0.772 (L) | |
| **PFTeDA** | U | | 0.772 (L) | |
| **PFBS** | | 25.0 | 0.772 (L) | 4:57 |
| **PFPeS** | | 26.7 | 0.772 (L) | 5:29 |
| **PFHxS** | | 69.3 | 0.772 (L) | |
| **PFHpS** | | 26.9 | 0.772 (L) | 7:07 |
| **PFOS** | E | | | |
| **PFNS** | U | | 0.772 (L) | |
| **PFDS** | U | | 0.772 (L) | |
| **PFDoS** | U | | 0.772 (L) | |
| **4:2 FTS** | U | | 3.09 (L) | |
| **6:2 FTS** | U | | 2.78 (L) | |
| **8:2 FTS** | U | | 3.09 (L) | |
| **PFOSA** | | 18.5 | 0.772 (L) | |
| **N-MeFOSA** | U | | 0.887 (L) | |
| **N-EtFOSA** | U | | 1.93 (L) | |
| **MeFOSAA** | U | | 0.772 (L) | |
| **EtFOSAA** | | 13.7 | 0.772 (L) | |
| **N-MeFOSE** | U | | 7.72 (L) | |
| **N-EtFOSE** | U | | 5.79 (L) | |
| **HFPO-DA** | U | | 2.93 (L) | |
| **ADONA** | U | | 3.09 (L) | |
| **9Cl-PF3ONS** | U | | 3.09 (L) | |
| **11Cl-PF3OUdS** | U | | 3.09 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; E = exceeds calibrated linear range, see dilution data; H = concentration is estimated.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-20_Form1A_FC0L_237S43_SJ2763766.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-20 R |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:31:26 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 43** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | V | 40.0 | 1.32 | 3.30 | 1:48 |
| **13C5-PFPeA** | V | 20.0 | 6.66 | 33.3 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 7.45 | 74.5 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.58 | 95.8 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.42 | 84.2 | 6:10 |
| **13C9-PFNA** | | 5.00 | 3.99 | 79.8 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.49 | 89.9 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.68 | 93.5 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.40 | 88.0 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.48 | 69.6 | 8:48 |
| **13C3-PFBS** | | 10.0 | 8.64 | 86.4 | 4:57 |
| **13C3-PFHxS** | | 10.0 | 8.69 | 86.9 | 6:15 |
| **13C8-PFOS** | | 10.0 | 9.80 | 98.0 | 7:37 |
| **13C2-4:2 FTS** | V | 20.0 | 9.52 | 47.6 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 12.7 | 63.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 16.4 | 82.1 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 11.9 | 119 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 12.1 | 121 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 12.0 | 120 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 21.7 | 108 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 21.4 | 107 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 97.4 | 97.4 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 104 | 104 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 26.7 | 66.7 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-20_Form2_FC0L_237S43_SJ2763766.html; Workgroup: WG72779; Design ID: 3769 ]

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:45**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | PRJ08141 |
| **Matrix:** | AQUEOUS | **Lab Sample I.D.:** | L33068-20 RN |
| **Sample Receipt Date:** | 13-May-2020 | **Sample Size:** | 0.518 L |
| **Extraction Date:** | 15-Jul-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:18:21 | **Instrument ID:** | LCMS/MS |
| **Extract Volume (uL):** | 4000 | **Column ID:** | C18 |
| **Injection Volume (uL):** | 2 | **Sample Data Filename:** | **FC0L_237 S: 42** |
| **Dilution Factor:** | 5 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Concentration Units:** | ng/L | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | X | | | |
| **PFPeA** | X | | | |
| **PFHxA** | X | | | |
| **PFHpA** | X | | | |
| **PFOA** | X | | | |
| **PFNA** | X | | | |
| **PFDA** | X | | | |
| **PFUnA** | X | | | |
| **PFDoA** | X | | | |
| **PFTrDA** | X | | | |
| **PFTeDA** | X | | | |
| **PFBS** | X | | | |
| **PFPeS** | X | | | |
| **PFHxS** | X | | | |
| **PFHpS** | X | | | |
| **PFOS** | D | 1850 | 3.86 (L) | |
| **PFNS** | X | | | |
| **PFDS** | X | | | |
| **PFDoS** | X | | | |
| **4:2 FTS** | X | | | |
| **6:2 FTS** | X | | | |
| **8:2 FTS** | X | | | |
| **PFOSA** | X | | | |
| **N-MeFOSA** | X | | | |
| **N-EtFOSA** | X | | | |
| **MeFOSAA** | X | | | |
| **EtFOSAA** | X | | | |
| **N-MeFOSE** | X | | | |
| **N-EtFOSE** | X | | | |
| **HFPO-DA** | X | | | |
| **ADONA** | X | | | |
| **9Cl-PF3ONS** | X | | | |
| **11Cl-PF3OUdS** | X | | | |

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form1A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-20_Form1A_FC0L_237S42_SJ2763765.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**CLIENT SAMPLE NO.**
**RC7-WAT-BULK-01-042920**
**Sample Collection:**
**29-Apr-2009 09:45**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | PRJ08141 | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | L33068-20 RN |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.518 L |
| **Sample Receipt Date:** | 13-May-2020 | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 08:18:21 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 42** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | 5 | **Cal. Ver. Data Filename:** | FC0L_237 S: 36 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | X | | | | |
| **13C5-PFPeA** | X | | | | |
| **13C5-PFHxA** | X | | | | |
| **13C4-PFHpA** | X | | | | |
| **13C8-PFOA** | X | | | | |
| **13C9-PFNA** | X | | | | |
| **13C6-PFDA** | X | | | | |
| **13C7-PFUnA** | X | | | | |
| **13C2-PFDoA** | X | | | | |
| **13C2-PFTeDA** | X | | | | |
| **13C3-PFBS** | X | | | | |
| **13C3-PFHxS** | X | | | | |
| **13C8-PFOS** | X | | | | |
| **13C2-4:2 FTS** | X | | | | |
| **13C2-6:2 FTS** | X | | | | |
| **13C2-8:2 FTS** | X | | | | |
| **13C8-PFOSA** | X | | | | |
| **D3-N-MeFOSA** | X | | | | |
| **D5-N-EtFOSA** | X | | | | |
| **D3-MeFOSAA** | X | | | | |
| **D5-EtFOSAA** | X | | | | |
| **d7-NMe-FOSE** | X | | | | |
| **d9-NEt-FOSE** | X | | | | |
| **13C3-HFPO-DA** | X | | | | |

(1) Where applicable, custom lab flags have been used on this report; X = result reported separately.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_L33068-20_Form2_FC0L_237S42_SJ2763765.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Project No.** | N/A |
| | | **Lab Sample I.D.:** | WG72779-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:19:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | RETENTION TIME |
|---|---|---|---|---|
| **PFBA** | U | | 3.20 (L) | |
| **PFPeA** | U | | 1.60 (L) | |
| **PFHxA** | U | | 0.800 (L) | |
| **PFHpA** | U | | 0.800 (L) | |
| **PFOA** | U | | 0.800 (L) | |
| **PFNA** | U | | 0.800 (L) | |
| **PFDA** | U | | 0.800 (L) | |
| **PFUnA** | U | | 0.800 (L) | |
| **PFDoA** | U | | 0.800 (L) | |
| **PFTrDA** | U | | 0.800 (L) | |
| **PFTeDA** | U | | 0.800 (L) | |
| **PFBS** | U | | 0.800 (L) | |
| **PFPeS** | U | | 0.800 (L) | |
| **PFHxS** | U | | 0.800 (L) | |
| **PFHpS** | U | | 0.800 (L) | |
| **PFOS** | U | | 0.800 (L) | |
| **PFNS** | U | | 0.800 (L) | |
| **PFDS** | U | | 0.800 (L) | |
| **PFDoS** | U | | 0.800 (L) | |
| **4:2 FTS** | U | | 3.20 (L) | |
| **6:2 FTS** | U | | 2.88 (L) | |
| **8:2 FTS** | U | | 3.20 (L) | |
| **PFOSA** | U | | 0.800 (L) | |
| **N-MeFOSA** | U | | 0.920 (L) | |
| **N-EtFOSA** | U | | 2.00 (L) | |
| **MeFOSAA** | U | | 0.800 (L) | |
| **EtFOSAA** | U | | 0.800 (L) | |
| **N-MeFOSE** | U | | 8.00 (L) | |
| **N-EtFOSE** | U | | 6.00 (L) | |
| **HFPO-DA** | U | | 3.04 (L) | |
| **ADONA** | U | | 3.20 (L) | |
| **9Cl-PF3ONS** | U | | 3.20 (L) | |
| **11Cl-PF3OUdS** | U | | 3.20 (L) | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

**SGS AXYS METHOD MLA-110 Rev 02**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72779-101 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.500 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 03:19:13 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **Sample Data Filename:** | **FC0L_237 S: 19** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |
| **Concentration Units:** | ng absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. | CONC. FOUND | R(%) [2] | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 36.2 | 90.5 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 19.5 | 97.3 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.72 | 97.2 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.22 | 92.2 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.92 | 89.2 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.47 | 89.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.99 | 99.8 | 7:33 |
| **13C7-PFUnA** | | 5.00 | 4.90 | 98.1 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.63 | 92.7 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.99 | 79.7 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.51 | 95.1 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.21 | 92.1 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.66 | 96.6 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 17.2 | 85.9 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 16.7 | 83.7 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 20.8 | 104 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 7.76 | 77.6 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.93 | 69.3 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.07 | 70.7 | 10:26 |
| **D3-MeFOSAA** | | 20.0 | 15.7 | 78.6 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.5 | 77.6 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 64.0 | 64.0 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 70.5 | 70.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 39.0 | 97.5 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.
(2) R(%) = percent recovery.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

For Axys Internal Use Only [ XSL Template: FC-Form2.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72779-101_Form2_FC0L_237S19_SJ2763692.html; Workgroup: WG72779; Design ID: 3769 ]

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72779-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 02:40:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_237 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 36.8 | 92.1 | 1:49 |
| **PFPeA** | | 20.0 | 18.4 | 92.1 | 4:24 |
| **PFHxA** | | 10.0 | 8.71 | 87.1 | 5:00 |
| **PFHpA** | | 10.0 | 9.11 | 91.1 | 5:28 |
| **PFOA** | | 10.0 | 8.45 | 84.5 | |
| **PFNA** | | 10.0 | 9.25 | 92.5 | |
| **PFDA** | | 10.0 | 8.39 | 83.9 | 7:32 |
| **PFUnA** | | 10.0 | 9.05 | 90.5 | 7:52 |
| **PFDoA** | | 10.0 | 9.31 | 93.1 | 8:07 |
| **PFTrDA** | | 10.0 | 8.53 | 85.3 | 8:25 |
| **PFTeDA** | | 10.0 | 9.22 | 92.2 | 8:48 |
| **PFBS** | | 10.0 | 9.37 | 93.7 | 4:58 |
| **PFPeS** | | 10.0 | 9.78 | 97.8 | 5:29 |
| **PFHxS** | | 10.0 | 8.57 | 85.7 | |
| **PFHpS** | | 10.0 | 9.20 | 92.0 | 7:07 |
| **PFOS** | | 10.0 | 8.53 | 85.3 | |
| **PFNS** | | 10.0 | 9.11 | 91.1 | 7:57 |
| **PFDS** | | 10.0 | 8.60 | 86.0 | 8:13 |
| **PFDoS** | | 10.0 | 8.52 | 85.2 | 8:58 |
| **4:2 FTS** | | 40.0 | 40.2 | 100 | 4:53 |
| **6:2 FTS** | | 36.1 | 32.8 | 91.0 | 5:53 |
| **8:2 FTS** | | 40.0 | 34.1 | 85.1 | 7:22 |
| **PFOSA** | | 10.0 | 9.32 | 93.2 | |
| **N-MeFOSA** | | 11.5 | 11.2 | 97.8 | |
| **N-EtFOSA** | | 25.0 | 21.4 | 85.7 | |
| **MeFOSAA** | | 10.0 | 9.14 | 91.4 | |
| **EtFOSAA** | | 10.0 | 9.15 | 91.5 | |
| **N-MeFOSE** | | 100 | 94.1 | 94.1 | |
| **N-EtFOSE** | | 75.0 | 72.1 | 96.2 | |
| **HFPO-DA** | | 38.0 | 37.8 | 99.5 | 5:09 |
| **ADONA** | | 40.0 | 38.1 | 95.4 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 39.8 | 99.4 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 37.9 | 94.6 | 8:26 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72779-102 (A) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 02:40:06 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_237 S: 16** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 38.6 | 96.4 | 1:48 |
| **13C5-PFPeA** | | 20.0 | 20.3 | 101 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 10.4 | 104 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 9.29 | 92.9 | 5:28 |
| **13C8-PFOA** | | 10.0 | 9.17 | 91.7 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.67 | 93.5 | 7:01 |
| **13C6-PFDA** | | 5.00 | 5.03 | 101 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.85 | 97.0 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.67 | 93.5 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.95 | 79.0 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.86 | 98.6 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.90 | 99.0 | 6:16 |
| **13C8-PFOS** | | 10.0 | 10.1 | 101 | 7:38 |
| **13C2-4:2 FTS** | | 20.0 | 16.7 | 83.3 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 17.3 | 86.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 21.4 | 107 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.83 | 88.3 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 7.30 | 73.0 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.64 | 76.4 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.7 | 83.4 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 17.3 | 86.3 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 69.6 | 69.6 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 75.1 | 75.1 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 40.0 | 100 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8B.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72779-102_Form8B_SJ2763685.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8A**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72779-103 (DUP WG72779-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 02:53:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_237 S: 17** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **PFBA** | | 40.0 | 39.3 | 98.3 | 1:49 |
| **PFPeA** | | 20.0 | 20.2 | 101 | 4:24 |
| **PFHxA** | | 10.0 | 9.45 | 94.5 | 5:01 |
| **PFHpA** | | 10.0 | 10.2 | 102 | 5:28 |
| **PFOA** | | 10.0 | 9.28 | 92.8 | |
| **PFNA** | | 10.0 | 9.73 | 97.3 | |
| **PFDA** | | 10.0 | 9.55 | 95.5 | 7:33 |
| **PFUnA** | | 10.0 | 8.85 | 88.5 | 7:52 |
| **PFDoA** | | 10.0 | 10.1 | 101 | 8:07 |
| **PFTrDA** | | 10.0 | 9.73 | 97.3 | 8:25 |
| **PFTeDA** | | 10.0 | 10.0 | 100 | 8:48 |
| **PFBS** | | 10.0 | 9.23 | 92.3 | 4:58 |
| **PFPeS** | | 10.0 | 10.5 | 105 | 5:29 |
| **PFHxS** | | 10.0 | 9.31 | 93.1 | |
| **PFHpS** | | 10.0 | 9.28 | 92.8 | 7:08 |
| **PFOS** | | 10.0 | 9.00 | 90.0 | |
| **PFNS** | | 10.0 | 9.81 | 98.1 | 7:57 |
| **PFDS** | | 10.0 | 8.76 | 87.6 | 8:13 |
| **PFDoS** | | 10.0 | 8.99 | 89.9 | 8:58 |
| **4:2 FTS** | | 40.0 | 39.7 | 99.3 | 4:53 |
| **6:2 FTS** | | 36.1 | 35.0 | 97.1 | 5:53 |
| **8:2 FTS** | | 40.0 | 38.3 | 95.8 | 7:22 |
| **PFOSA** | | 10.0 | 9.90 | 99.0 | |
| **N-MeFOSA** | | 11.5 | 12.1 | 105 | |
| **N-EtFOSA** | | 25.0 | 23.0 | 92.2 | |
| **MeFOSAA** | | 10.0 | 10.0 | 100 | |
| **EtFOSAA** | | 10.0 | 9.73 | 97.3 | |
| **N-MeFOSE** | | 100 | 102 | 102 | |
| **N-EtFOSE** | | 75.0 | 76.2 | 102 | |
| **HFPO-DA** | | 38.0 | 37.7 | 99.2 | 5:09 |
| **ADONA** | | 40.0 | 40.7 | 102 | 5:41 |
| **9Cl-PF3ONS** | | 40.0 | 41.8 | 104 | 7:52 |
| **11Cl-PF3OUdS** | | 40.0 | 39.8 | 99.6 | 8:27 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: FC-Form8A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFC_FC_LC_PFAS_WG72779-103_Form8A_SJ2763688.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 8B**

**PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4095 | **Lab Sample I.D.:** | WG72779-103 (DUP WG72779-102) |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 18-Mar-2020 |
| **Extraction Date:** | 15-Jul-2020 | **Instrument ID:** | LCMS/MS |
| **Analysis Date:** | 16-Jul-2020 **Time:** 02:53:11 | **Column ID:** | C18 |
| **Extract Volume (uL):** | 4000 | **OPR Data Filename:** | **FC0L_237 S: 17** |
| **Injection Volume (uL):** | 2 | **Blank Data Filename:** | FC0L_237 S: 19 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | FC0L_237 S: 12 |

**ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.**

| LABELED COMPOUND | LAB FLAG [1] | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | % RECOVERY | RETENTION TIME |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 40.0 | 35.1 | 87.7 | 1:49 |
| **13C5-PFPeA** | | 20.0 | 18.4 | 91.9 | 4:24 |
| **13C5-PFHxA** | | 10.0 | 9.58 | 95.8 | 5:00 |
| **13C4-PFHpA** | | 10.0 | 8.83 | 88.3 | 5:28 |
| **13C8-PFOA** | | 10.0 | 8.56 | 85.6 | 6:10 |
| **13C9-PFNA** | | 5.00 | 4.28 | 85.7 | 7:01 |
| **13C6-PFDA** | | 5.00 | 4.56 | 91.1 | 7:32 |
| **13C7-PFUnA** | | 5.00 | 4.26 | 85.2 | 7:52 |
| **13C2-PFDoA** | | 5.00 | 4.20 | 83.9 | 8:07 |
| **13C2-PFTeDA** | | 5.00 | 3.77 | 75.5 | 8:48 |
| **13C3-PFBS** | | 10.0 | 9.43 | 94.3 | 4:58 |
| **13C3-PFHxS** | | 10.0 | 9.01 | 90.1 | 6:16 |
| **13C8-PFOS** | | 10.0 | 9.86 | 98.6 | 7:37 |
| **13C2-4:2 FTS** | | 20.0 | 16.4 | 81.9 | 4:53 |
| **13C2-6:2 FTS** | | 20.0 | 14.9 | 74.5 | 5:53 |
| **13C2-8:2 FTS** | | 20.0 | 17.3 | 86.6 | 7:22 |
| **13C8-PFOSA** | | 10.0 | 8.69 | 86.9 | 8:42 |
| **D3-N-MeFOSA** | | 10.0 | 6.97 | 69.7 | 10:08 |
| **D5-N-EtFOSA** | | 10.0 | 7.08 | 70.8 | 10:25 |
| **D3-MeFOSAA** | | 20.0 | 16.5 | 82.3 | 7:36 |
| **D5-EtFOSAA** | | 20.0 | 15.6 | 78.2 | 7:44 |
| **d7-NMe-FOSE** | | 100 | 66.2 | 66.2 | 10:00 |
| **d9-NEt-FOSE** | | 100 | 72.5 | 72.5 | 10:18 |
| **13C3-HFPO-DA** | | 40.0 | 37.9 | 94.7 | 5:09 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

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Report Filename: PFC_FC_LC_PFAS_WG72779-103_Form8B_SJ2763688.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**PERFLUORINATED ORGANICS ANALYSIS REPORT**
**RELATIVE PERCENT DIFFERENCE**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Contract No.:** 4095
**Client ID:** Spiked Matrix **Concentration Units:** ng/mL

| COMPOUND | WG72779-102 (A) LAB FLAG [1] | WG72779-102 (A) CONC. FOUND | WG72779-103 LAB FLAG [1] | WG72779-103 CONC. FOUND | MEAN | RELATIVE PERCENT DIFFERENCE |
|---|---|---|---|---|---|---|
| **PFBA** | | 36.8 | | 39.3 | 38.1 | 6.57 |
| **PFPeA** | | 18.4 | | 20.2 | 19.3 | 9.40 |
| **PFHxA** | | 8.71 | | 9.45 | 9.08 | 8.17 |
| **PFHpA** | | 9.11 | | 10.2 | 9.64 | 11.0 |
| **PFOA** | | 8.45 | | 9.28 | 8.87 | 9.34 |
| **PFNA** | | 9.25 | | 9.73 | 9.49 | 5.07 |
| **PFDA** | | 8.39 | | 9.55 | 8.97 | 12.9 |
| **PFUnA** | | 9.05 | | 8.85 | 8.95 | 2.21 |
| **PFDoA** | | 9.31 | | 10.1 | 9.68 | 7.74 |
| **PFTrDA** | | 8.53 | | 9.73 | 9.13 | 13.1 |
| **PFTeDA** | | 9.22 | | 10.0 | 9.63 | 8.50 |
| **PFBS** | | 9.37 | | 9.23 | 9.30 | 1.50 |
| **PFPeS** | | 9.78 | | 10.5 | 10.1 | 7.27 |
| **PFHxS** | | 8.57 | | 9.31 | 8.94 | 8.27 |
| **PFHpS** | | 9.20 | | 9.28 | 9.24 | 0.855 |
| **PFOS** | | 8.53 | | 9.00 | 8.77 | 5.29 |
| **PFNS** | | 9.11 | | 9.81 | 9.46 | 7.32 |
| **PFDS** | | 8.60 | | 8.76 | 8.68 | 1.87 |
| **PFDoS** | | 8.52 | | 8.99 | 8.75 | 5.36 |
| **4:2 FTS** | | 40.2 | | 39.7 | 40.0 | 1.15 |
| **6:2 FTS** | | 32.8 | | 35.0 | 33.9 | 6.44 |
| **8:2 FTS** | | 34.1 | | 38.3 | 36.2 | 11.8 |
| **PFOSA** | | 9.32 | | 9.90 | 9.61 | 6.05 |
| **N-MeFOSA** | | 11.2 | | 12.1 | 11.7 | 7.50 |
| **N-EtFOSA** | | 21.4 | | 23.0 | 22.2 | 7.27 |
| **MeFOSAA** | | 9.14 | | 10.0 | 9.58 | 9.29 |
| **EtFOSAA** | | 9.15 | | 9.73 | 9.44 | 6.10 |
| **N-MeFOSE** | | 94.1 | | 102 | 98.1 | 8.13 |
| **N-EtFOSE** | | 72.1 | | 76.2 | 74.2 | 5.45 |
| **HFPO-DA** | | 37.8 | | 37.7 | 37.7 | 0.336 |
| **ADONA** | | 38.1 | | 40.7 | 39.4 | 6.52 |
| **9Cl-PF3ONS** | | 39.8 | | 41.8 | 40.8 | 4.92 |
| **11Cl-PF3OUdS** | | 37.9 | | 39.8 | 38.8 | 5.10 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Andrew Porat_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: RPD_FC_LC_PFAS-RPD_WG72779-103_WG72779-102_.html; Workgroup: WG72779; Design ID: 3769 ]

**Form 3A**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | PERCENT RECOVERY (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **PFBA** | | | 105 | 104 | 101 | 99.8 | 94.2 | 96.1 | 100 | |
| **PFPeA** | | | 102 | 105 | 100 | 101 | 94.3 | 97.4 | 100 | |
| **PFHxA** | | | 112 | 108 | 101 | 98.0 | 88.5 | 94.8 | 97.3 | |
| **PFHpA** | | | 115 | 110 | 97.6 | 92.5 | 92.6 | 96.9 | 95.4 | |
| **PFOA** | | | 118 | 111 | 103 | 91.3 | 86.1 | 95.5 | 94.8 | |
| **PFNA** | | | 105 | 98.7 | 97.9 | 105 | 90.6 | 98.1 | 105 | |
| **PFDA** | | | 103 | 112 | 99.4 | 96.1 | 93.4 | 91.8 | 104 | |
| **PFUnA** | | | 99.9 | 99.9 | 102 | 103 | 96.3 | 102 | 97.3 | |
| **PFDoA** | | | 100 | 97.1 | 88.5 | 125 | 102 | 104 | 83.9 | |
| **PFTrDA** | | | 94.2 | 106 | 103 | 114 | 95.7 | 87.5 | | |
| **PFTeDA** | | | 119 | 111 | 106 | 105 | 95.9 | 87.9 | 74.8 | |
| **PFBS** | | | 102 | 108 | 101 | 103 | 94.0 | 93.8 | 98.1 | |
| **PFPeS** | | | 102 | 106 | 101 | 105 | 97.1 | 97.7 | 90.3 | |
| **PFHxS** | | | 101 | 103 | 101 | 97.2 | 91.2 | 97.3 | 109 | |
| **PFHpS** | | | 100 | 114 | 101 | 99.9 | 90.6 | 95.7 | 98.7 | |
| **PFOS** | | | 119 | 115 | 91.5 | 93.3 | 89.6 | 91.4 | 101 | |
| **PFNS** | | | 114 | 129 | 76.4 | 83.2 | 81.8 | 107 | 108 | |
| **PFDS** | | | 112 | 118 | 93.5 | 94.2 | 91.1 | 90.4 | 101 | |
| **PFDoS** | | | 99.1 | 117 | 97.2 | 99.1 | 91.9 | 93.7 | 102 | |
| **4:2 FTS** | | | 114 | 101 | 102 | 111 | 99.9 | 95.9 | 76.0 | |
| **6:2 FTS** | | | 110 | 117 | 98.7 | 100 | 91.5 | 82.6 | | |
| **8:2 FTS** | | | 94.7 | 117 | 102 | 100 | 100 | 85.4 | | |
| **PFOSA** | | | 109 | 103 | 96.9 | 98.6 | 94.3 | 96.3 | 102 | |
| **N-MeFOSA** | | | 92.0 | 116 | 108 | 109 | 98.9 | 96.2 | 80.2 | |
| **N-EtFOSA** | | | 96.6 | 112 | 99.7 | 97.5 | 95.4 | 97.1 | 102 | |
| **MeFOSAA** | | | 98.3 | 104 | 97.0 | 110 | 97.2 | 102 | 91.0 | |
| **EtFOSAA** | | | 121 | 80.0 | 110 | 102 | 93.5 | 91.3 | 102 | |
| **N-MeFOSE** | | | 107 | 106 | 103 | 101 | 94.2 | 95.5 | 93.8 | |
| **N-EtFOSE** | | | 101 | 105 | 107 | 102 | 95.3 | 96.9 | 93.0 | |
| **HFPO-DA** | | | 104 | 104 | 105 | 106 | 99.2 | 95.5 | 86.5 | |
| **ADONA** | | | 104 | 98.2 | 99.7 | 102 | 99.3 | 95.9 | 101 | |
| **9Cl-PF3ONS** | | | 105 | 111 | 104 | 107 | 97.3 | 90.9 | 84.9 | |
| **11Cl-PF3OUdS** | | | 106 | 109 | 101 | 98.1 | 94.7 | 94.3 | 96.9 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3A_GS88042.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 3B**
**LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A

**CS1 Data Filename:** FC0L_082 S: 10

**CS2 Data Filename:** FC0L_082 S: 11

**CS3 Data Filename:** FC0L_082 S: 12

**CS4 Data Filename:** FC0L_082 S: 13

**CS5 Data Filename:** FC0L_082 S: 14

**CS6 Data Filename:** FC0L_082 S: 15

**CS7 Data Filename:** FC0L_082 S: 16

**CS8 Data Filename:** N/A

| | | PERCENT RECOVERIES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** |
| **13C4-PFBA** | | | 99.0 | 102 | 99.9 | 99.7 | 100 | 99.5 | 99.1 | |
| **13C5-PFPeA** | | | 108 | 106 | 104 | 105 | 103 | 94.5 | 79.2 | |
| **13C5-PFHxA** | | | 102 | 103 | 99.3 | 101 | 102 | 99.2 | 94.1 | |
| **13C4-PFHpA** | | | 95.2 | 106 | 105 | 106 | 106 | 94.9 | 86.8 | |
| **13C8-PFOA** | | | 97.0 | 101 | 103 | 101 | 106 | 95.5 | 95.7 | |
| **13C9-PFNA** | | | 97.7 | 105 | 104 | 99.3 | 97.3 | 102 | 95.1 | |
| **13C6-PFDA** | | | 114 | 108 | 82.8 | 113 | 106 | 98.3 | 77.0 | |
| **13C7-PFUnA** | | | 114 | 118 | 103 | 103 | 93.3 | 67.7 | | |
| **13C2-PFDoA** | | | 111 | 111 | 96.0 | 85.8 | 98.6 | 94.8 | 103 | |
| **13C2-PFTeDA** | | | 97.0 | 102 | 95.6 | 94.2 | 94.1 | 99.3 | 118 | |
| **13C3-PFBS** | | | 97.7 | 112 | 105 | 102 | 101 | 99.2 | 82.6 | |
| **13C3-PFHxS** | | | 101 | 104 | 102 | 99.9 | 101 | 101 | 91.4 | |
| **13C8-PFOS** | | | 99.7 | 88.7 | 104 | 104 | 100 | 105 | 98.6 | |
| **13C2-4:2 FTS** | | | 105 | 116 | 109 | 96.6 | 73.2 | | | |
| **13C2-6:2 FTS** | | | 105 | 116 | 115 | 106 | 88.3 | 70.0 | | |
| **13C2-8:2 FTS** | | | 111 | 116 | 116 | 114 | 85.5 | 71.7 | 85.6 | |
| **13C8-PFOSA** | | | 92.4 | 95.4 | 90.5 | 92.6 | 90.8 | 104 | 134 | |
| **D3-N-MeFOSA** | | | 97.8 | 101 | 88.3 | 95.5 | 100 | 118 | | |
| **D5-N-EtFOSA** | | | 97.3 | 96.0 | 91.1 | 95.6 | 90.7 | 107 | 122 | |
| **D3-MeFOSAA** | | | 96.2 | 92.6 | 97.5 | 93.6 | 95.9 | 103 | 121 | |
| **D5-EtFOSAA** | | | 97.5 | 100 | 93.2 | 97.7 | 96.2 | 109 | 106 | |
| **d7-NMe-FOSE** | | | 95.8 | 95.8 | 89.7 | 96.2 | 95.8 | 107 | 120 | |
| **d9-NEt-FOSE** | | | 95.6 | 98.2 | 88.6 | 95.4 | 93.9 | 105 | 124 | |
| **13C3-HFPO-DA** | | | 109 | 110 | 110 | 107 | 101 | 90.0 | 72.7 | |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**Form 3C**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **LAB FLAG [1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **PFBA** | | | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | 1:58 | | 1:58 |
| **PFPeA** | | | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **PFHxA** | | | 4:54 | 4:54 | 4:53 | 4:53 | 4:54 | 4:54 | 4:54 | | 4:54 |
| **PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:24 | | 5:23 |
| **PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **PFNA** | | | 7:02 | 7:03 | 7:02 | 7:03 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:34 | 7:33 | | 7:34 |
| **PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:54 | 7:54 | 7:54 | | 7:54 |
| **PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **PFTrDA** | | | 8:30 | 8:30 | 8:29 | 8:29 | 8:30 | 8:30 | | | 8:30 |
| **PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **PFPeS** | | | 5:25 | 5:26 | 5:25 | 5:25 | 5:25 | 5:26 | 5:26 | | 5:25 |
| **PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **PFHpS** | | | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | 7:09 | | 7:09 |
| **PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **PFNS** | | | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | 7:59 | | 7:59 |
| **PFDS** | | | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | 8:16 | | 8:16 |
| **PFDoS** | | | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | 9:06 | | 9:06 |
| **4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | 4:46 |
| **6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **8:2 FTS** | | | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | | 7:23 |
| **PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **N-MeFOSA** | | | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | 10:12 | | 10:12 |
| **N-EtFOSA** | | | 10:30 | 10:30 | 10:31 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **EtFOSAA** | | | 7:46 | 7:46 | 7:45 | 7:46 | 7:45 | 7:46 | 7:45 | | 7:46 |
| **N-MeFOSE** | | | 10:04 | 10:03 | 10:04 | 10:04 | 10:04 | 10:04 | 10:04 | | 10:04 |
| **N-EtFOSE** | | | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | 10:23 | | 10:23 |
| **HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |
| **ADONA** | | | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | 5:38 | | 5:38 |
| **9Cl-PF3ONS** | | | 7:54 | 7:54 | 7:53 | 7:53 | 7:53 | 7:54 | 7:53 | | 7:53 |
| **11Cl-PF3OUdS** | | | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | 8:31 | | 8:31 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form3C.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFOA_FC_LC_18-Mar-2020_FC0L__Form3C_GS88042.html; Workgroup: WG72779; Design ID: 3769 ]

**Form 3D**
**LC MS/MS INITIAL CALIBRATION RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 18-Mar-2020

**Instrument ID:** LC MS/MS

**LC Column ID:** C18

**CS0 Data Filename:** N/A
**CS1 Data Filename:** FC0L_082 S: 10
**CS2 Data Filename:** FC0L_082 S: 11
**CS3 Data Filename:** FC0L_082 S: 12
**CS4 Data Filename:** FC0L_082 S: 13
**CS5 Data Filename:** FC0L_082 S: 14
**CS6 Data Filename:** FC0L_082 S: 15
**CS7 Data Filename:** FC0L_082 S: 16
**CS8 Data Filename:** N/A

| | | RETENTION TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LABELED COMPOUND** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **CS7** | **CS8** | **MEAN RT** |
| **13C4-PFBA** | | | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | 1:57 | | 1:57 |
| **13C5-PFPeA** | | | 4:18 | 4:19 | 4:18 | 4:18 | 4:19 | 4:19 | 4:19 | | 4:19 |
| **13C5-PFHxA** | | | 4:53 | 4:53 | 4:53 | 4:53 | 4:53 | 4:54 | 4:54 | | 4:53 |
| **13C4-PFHpA** | | | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | 5:23 | | 5:23 |
| **13C8-PFOA** | | | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | 6:11 | | 6:11 |
| **13C9-PFNA** | | | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | 7:02 | | 7:02 |
| **13C6-PFDA** | | | 7:34 | 7:34 | 7:33 | 7:34 | 7:33 | 7:33 | 7:33 | | 7:33 |
| **13C7-PFUnA** | | | 7:54 | 7:54 | 7:53 | 7:54 | 7:53 | 7:54 | | | 7:54 |
| **13C2-PFDoA** | | | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | 8:10 | | 8:10 |
| **13C2-PFTeDA** | | | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | 8:55 | | 8:55 |
| **13C3-PFBS** | | | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | 4:51 | | 4:51 |
| **13C3-PFHxS** | | | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | 6:17 | | 6:17 |
| **13C8-PFOS** | | | 7:40 | 7:40 | 7:39 | 7:40 | 7:39 | 7:40 | 7:39 | | 7:40 |
| **13C2-4:2 FTS** | | | 4:46 | 4:46 | 4:46 | 4:46 | 4:46 | | | | 4:46 |
| **13C2-6:2 FTS** | | | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | 5:51 | | | 5:51 |
| **13C2-8:2 FTS** | | | 7:23 | 7:24 | 7:23 | 7:23 | 7:23 | 7:23 | 7:23 | | 7:23 |
| **13C8-PFOSA** | | | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | 8:45 | | 8:45 |
| **D3-N-MeFOSA** | | | 10:11 | 10:11 | 10:12 | 10:11 | 10:12 | 10:11 | | | 10:11 |
| **D5-N-EtFOSA** | | | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | 10:30 | | 10:30 |
| **D3-MeFOSAA** | | | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | 7:37 | | 7:37 |
| **D5-EtFOSAA** | | | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | | 7:45 |
| **d7-NMe-FOSE** | | | 10:03 | 10:02 | 10:03 | 10:03 | 10:03 | 10:03 | 10:02 | | 10:03 |
| **d9-NEt-FOSE** | | | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | 10:22 | | 10:22 |
| **13C3-HFPO-DA** | | | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | 5:03 | | 5:03 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_237 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:48:02 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:50 | 40.0 | 38.8 | 96.9 |
| **PFPeA** | | 4:24 | 20.0 | 19.5 | 97.5 |
| **PFHxA** | | 5:01 | 10.0 | 9.81 | 98.1 |
| **PFHpA** | | 5:28 | 10.0 | 9.35 | 93.5 |
| **PFOA** | | 6:10 | 10.0 | 9.17 | 91.7 |
| **PFNA** | | 7:01 | 10.0 | 9.94 | 99.4 |
| **PFDA** | | 7:33 | 10.0 | 9.61 | 96.1 |
| **PFUnA** | | 7:52 | 10.0 | 9.88 | 98.8 |
| **PFDoA** | | 8:08 | 10.0 | 9.55 | 95.5 |
| **PFTrDA** | | 8:25 | 10.0 | 9.64 | 96.4 |
| **PFTeDA** | | 8:49 | 10.0 | 9.85 | 98.5 |
| **PFBS** | | 4:58 | 10.0 | 9.06 | 90.6 |
| **PFPeS** | | 5:29 | 10.0 | 9.98 | 99.8 |
| **PFHxS** | | 6:16 | 10.0 | 9.12 | 91.2 |
| **PFHpS** | | 7:08 | 10.0 | 9.49 | 94.9 |
| **PFOS** | | 7:38 | 10.0 | 8.82 | 88.2 |
| **PFNS** | | 7:57 | 10.0 | 10.2 | 102 |
| **PFDS** | | 8:13 | 10.0 | 8.95 | 89.5 |
| **PFDoS** | | 8:58 | 10.0 | 9.37 | 93.7 |
| **4:2 FTS** | | 4:53 | 40.0 | 42.3 | 106 |
| **6:2 FTS** | | 5:53 | 36.0 | 32.7 | 90.9 |
| **8:2 FTS** | | 7:22 | 40.0 | 35.3 | 88.3 |
| **PFOSA** | | 8:42 | 10.0 | 9.69 | 96.9 |
| **N-MeFOSA** | | 10:08 | 11.5 | 12.1 | 105 |
| **N-EtFOSA** | | 10:26 | 25.0 | 22.8 | 91.2 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.6 | 106 |
| **EtFOSAA** | | 7:44 | 10.0 | 9.24 | 92.4 |
| **N-MeFOSE** | | 10:01 | 100 | 101 | 101 |
| **N-EtFOSE** | | 10:19 | 75.0 | 76.1 | 101 |
| **HFPO-DA** | | 5:09 | 40.0 | 40.0 | 100 |
| **ADONA** | | 5:41 | 40.0 | 40.2 | 101 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 41.7 | 104 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 43.9 | 110 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

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**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_237 S: 12 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 01:48:02 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:50 | 40.0 | 39.4 | 98.5 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 20.4 | 102 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 9.95 | 99.5 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.2 | 102 |
| **13C8-PFOA** | | 6:10 | 10.0 | 9.72 | 97.2 |
| **13C9-PFNA** | | 7:01 | 5.00 | 4.91 | 98.2 |
| **13C6-PFDA** | | 7:33 | 5.00 | 4.98 | 99.6 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 4.96 | 99.2 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.53 | 111 |
| **13C2-PFTeDA** | | 8:48 | 5.00 | 4.68 | 93.7 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.53 | 104 |
| **13C3-PFHxS** | | 6:16 | 10.0 | 9.84 | 98.4 |
| **13C8-PFOS** | | 7:38 | 10.0 | 11.0 | 110 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 16.1 | 80.4 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 16.9 | 84.6 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 20.6 | 103 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 9.82 | 98.2 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 9.98 | 99.8 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.4 | 104 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 16.6 | 83.1 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 16.8 | 83.9 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 97.8 | 97.8 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 97.6 | 97.6 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 39.2 | 98.0 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_237S12__Form4B_SJ2763679.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_237 S: 36 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 07:00:14 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:50 | 40.0 | 38.6 | 96.5 |
| **PFPeA** | | 4:24 | 20.0 | 19.4 | 97.1 |
| **PFHxA** | | 5:01 | 10.0 | 9.64 | 96.4 |
| **PFHpA** | | 5:28 | 10.0 | 9.19 | 91.9 |
| **PFOA** | | 6:10 | 10.0 | 8.90 | 89.0 |
| **PFNA** | | 7:01 | 10.0 | 9.63 | 96.3 |
| **PFDA** | | 7:33 | 10.0 | 9.76 | 97.6 |
| **PFUnA** | | 7:52 | 10.0 | 9.18 | 91.8 |
| **PFDoA** | | 8:07 | 10.0 | 8.24 | 82.4 |
| **PFTrDA** | | 8:25 | 10.0 | 9.34 | 93.4 |
| **PFTeDA** | | 8:48 | 10.0 | 9.56 | 95.6 |
| **PFBS** | | 4:58 | 10.0 | 9.28 | 92.8 |
| **PFPeS** | | 5:29 | 10.0 | 9.91 | 99.1 |
| **PFHxS** | | 6:16 | 10.0 | 9.48 | 94.8 |
| **PFHpS** | | 7:08 | 10.0 | 9.50 | 95.0 |
| **PFOS** | | 7:38 | 10.0 | 9.20 | 92.0 |
| **PFNS** | | 7:57 | 10.0 | 9.98 | 99.8 |
| **PFDS** | | 8:13 | 10.0 | 9.41 | 94.1 |
| **PFDoS** | | 8:58 | 10.0 | 9.46 | 94.6 |
| **4:2 FTS** | | 4:53 | 40.0 | 44.2 | 110 |
| **6:2 FTS** | | 5:53 | 36.0 | 32.5 | 90.4 |
| **8:2 FTS** | | 7:22 | 40.0 | 38.2 | 95.4 |
| **PFOSA** | | 8:42 | 10.0 | 9.88 | 98.8 |
| **N-MeFOSA** | | 10:08 | 11.5 | 12.7 | 111 |
| **N-EtFOSA** | | 10:26 | 25.0 | 23.2 | 92.6 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.6 | 106 |
| **EtFOSAA** | | 7:44 | 10.0 | 9.17 | 91.7 |
| **N-MeFOSE** | | 10:01 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:19 | 75.0 | 75.0 | 100 |
| **HFPO-DA** | | 5:09 | 40.0 | 39.5 | 98.8 |
| **ADONA** | | 5:41 | 40.0 | 41.0 | 102 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 42.0 | 105 |
| **11Cl-PF3OUdS** | | 8:26 | 40.0 | 44.7 | 112 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_237S36__Form4A_SJ2763709.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_237 S: 36 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 07:00:14 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:49 | 40.0 | 40.1 | 100 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 21.3 | 106 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.2 | 102 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 9.96 | 99.6 |
| **13C8-PFOA** | | 6:10 | 10.0 | 10.2 | 102 |
| **13C9-PFNA** | | 7:01 | 5.00 | 5.00 | 100 |
| **13C6-PFDA** | | 7:32 | 5.00 | 5.19 | 104 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.17 | 103 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.26 | 105 |
| **13C2-PFTeDA** | | 8:48 | 5.00 | 4.70 | 94.1 |
| **13C3-PFBS** | | 4:58 | 9.18 | 9.68 | 105 |
| **13C3-PFHxS** | | 6:16 | 10.0 | 9.93 | 99.3 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.9 | 109 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 15.6 | 78.2 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 17.1 | 85.7 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 19.7 | 98.6 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 9.72 | 97.2 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 9.90 | 99.0 |
| **D5-N-EtFOSA** | | 10:25 | 10.0 | 10.5 | 105 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 16.8 | 84.2 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 17.8 | 88.8 |
| **d7-NMe-FOSE** | | 9:59 | 100 | 101 | 101 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 100 | 100 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 39.6 | 99.0 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_237S36__Form4B_SJ2763709.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_237 S: 46 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 09:10:25 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:51 | 40.0 | 38.8 | 96.9 |
| **PFPeA** | | 4:24 | 20.0 | 19.6 | 98.2 |
| **PFHxA** | | 5:01 | 10.0 | 9.52 | 95.2 |
| **PFHpA** | | 5:28 | 10.0 | 9.15 | 91.5 |
| **PFOA** | | 6:10 | 10.0 | 9.13 | 91.3 |
| **PFNA** | | 7:01 | 10.0 | 9.66 | 96.6 |
| **PFDA** | | 7:33 | 10.0 | 9.45 | 94.5 |
| **PFUnA** | | 7:52 | 10.0 | 9.75 | 97.5 |
| **PFDoA** | | 8:07 | 10.0 | 10.4 | 104 |
| **PFTrDA** | | 8:25 | 10.0 | 9.58 | 95.8 |
| **PFTeDA** | | 8:48 | 10.0 | 10.4 | 104 |
| **PFBS** | | 4:58 | 10.0 | 9.63 | 96.3 |
| **PFPeS** | | 5:29 | 10.0 | 10.4 | 104 |
| **PFHxS** | | 6:16 | 10.0 | 9.31 | 93.1 |
| **PFHpS** | | 7:07 | 10.0 | 9.64 | 96.4 |
| **PFOS** | | 7:38 | 10.0 | 9.55 | 95.5 |
| **PFNS** | | 7:57 | 10.0 | 9.85 | 98.5 |
| **PFDS** | | 8:13 | 10.0 | 9.29 | 92.9 |
| **PFDoS** | | 8:58 | 10.0 | 9.74 | 97.4 |
| **4:2 FTS** | | 4:53 | 40.0 | 39.9 | 99.8 |
| **6:2 FTS** | | 5:53 | 36.0 | 32.6 | 90.6 |
| **8:2 FTS** | | 7:22 | 40.0 | 36.1 | 90.3 |
| **PFOSA** | | 8:42 | 10.0 | 9.84 | 98.4 |
| **N-MeFOSA** | | 10:08 | 11.5 | 11.8 | 103 |
| **N-EtFOSA** | | 10:26 | 25.0 | 22.9 | 91.6 |
| **MeFOSAA** | | 7:36 | 10.0 | 9.71 | 97.1 |
| **EtFOSAA** | | 7:44 | 10.0 | 9.05 | 90.5 |
| **N-MeFOSE** | | 10:01 | 100 | 99.3 | 99.3 |
| **N-EtFOSE** | | 10:19 | 75.0 | 74.3 | 99.1 |
| **HFPO-DA** | | 5:09 | 40.0 | 38.8 | 97.0 |
| **ADONA** | | 5:41 | 40.0 | 39.4 | 98.5 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 40.7 | 102 |
| **11Cl-PF3OUdS** | | 8:26 | 40.0 | 41.0 | 103 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_237S46__Form4A_SJ2763769.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 18-Mar-2020 | **VER Data Filename:** | FC0L_237 S: 46 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 16-Jul-2020 |
| **LC Column ID:** | C18 | **Analysis Time:** | 09:10:25 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:50 | 40.0 | 39.7 | 99.3 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 20.4 | 102 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.1 | 101 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.6 | 106 |
| **13C8-PFOA** | | 6:10 | 10.0 | 9.83 | 98.3 |
| **13C9-PFNA** | | 7:01 | 5.00 | 4.96 | 99.2 |
| **13C6-PFDA** | | 7:32 | 5.00 | 5.54 | 111 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.03 | 101 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.06 | 101 |
| **13C2-PFTeDA** | | 8:48 | 5.00 | 4.55 | 91.0 |
| **13C3-PFBS** | | 4:58 | 9.18 | 10.1 | 110 |
| **13C3-PFHxS** | | 6:16 | 10.0 | 9.92 | 99.2 |
| **13C8-PFOS** | | 7:38 | 10.0 | 10.2 | 102 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 17.2 | 86.2 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 17.3 | 86.5 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 20.5 | 103 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 9.34 | 93.4 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 9.52 | 95.2 |
| **D5-N-EtFOSA** | | 10:25 | 10.0 | 9.86 | 98.6 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 16.9 | 84.7 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 17.0 | 85.0 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 92.5 | 92.5 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 93.5 | 93.5 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 41.0 | 102 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8;
Report Filename: PFOA_FC_LC_FC0L_237S46__Form4B_SJ2763769.html; Workgroup: WG72779; Design ID: 3769 ]

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | MISSING | **VER Data Filename:** | FC0L_243 S: 26 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 21-Jul-2020 |
| **LC Column ID:** | | **Analysis Time:** | 14:40:08 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:50 | 40.0 | 38.7 | 96.6 |
| **PFPeA** | | 4:24 | 20.0 | 19.4 | 96.8 |
| **PFHxA** | | 5:00 | 10.0 | 9.43 | 94.3 |
| **PFHpA** | | 5:28 | 10.0 | 9.61 | 96.1 |
| **PFOA** | | 6:11 | 10.0 | 8.93 | 89.3 |
| **PFNA** | | 7:01 | 10.0 | 9.73 | 97.3 |
| **PFDA** | | 7:32 | 10.0 | 9.64 | 96.4 |
| **PFUnA** | | 7:52 | 10.0 | 9.67 | 96.7 |
| **PFDoA** | | 8:08 | 10.0 | 9.75 | 97.5 |
| **PFTrDA** | | 8:26 | 10.0 | 9.34 | 93.4 |
| **PFTeDA** | | 8:49 | 10.0 | 9.46 | 94.6 |
| **PFBS** | | 4:57 | 10.0 | 9.54 | 95.4 |
| **PFPeS** | | 5:29 | 10.0 | 9.99 | 99.9 |
| **PFHxS** | | 6:16 | 10.0 | 9.14 | 91.4 |
| **PFHpS** | | 7:08 | 10.0 | 9.16 | 91.6 |
| **PFOS** | | 7:38 | 10.0 | 8.30 | 83.0 |
| **PFNS** | | 7:57 | 10.0 | 10.1 | 101 |
| **PFDS** | | 8:13 | 10.0 | 9.51 | 95.1 |
| **PFDoS** | | 8:59 | 10.0 | 9.37 | 93.7 |
| **4:2 FTS** | | 4:53 | 40.0 | 40.8 | 102 |
| **6:2 FTS** | | 5:53 | 36.0 | 38.6 | 107 |
| **8:2 FTS** | | 7:22 | 40.0 | 35.4 | 88.5 |
| **PFOSA** | | 8:43 | 10.0 | 9.71 | 97.1 |
| **N-MeFOSA** | | 10:09 | 11.5 | 11.8 | 103 |
| **N-EtFOSA** | | 10:26 | 25.0 | 23.1 | 92.2 |
| **MeFOSAA** | | 7:36 | 10.0 | 10.6 | 106 |
| **EtFOSAA** | | 7:44 | 10.0 | 8.56 | 85.6 |
| **N-MeFOSE** | | 10:02 | 100 | 100 | 100 |
| **N-EtFOSE** | | 10:20 | 75.0 | 76.7 | 102 |
| **HFPO-DA** | | 5:09 | 40.0 | 37.2 | 93.0 |
| **ADONA** | | 5:41 | 40.0 | 35.6 | 89.0 |
| **9Cl-PF3ONS** | | 7:52 | 40.0 | 39.0 | 97.4 |
| **11Cl-PF3OUdS** | | 8:27 | 40.0 | 39.1 | 97.9 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_243S26__Form4A_SJ2764766.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | MISSING | **VER Data Filename:** | FC0L_243 S: 26 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 21-Jul-2020 |
| **LC Column ID:** | | **Analysis Time:** | 14:40:08 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:50 | 40.0 | 39.9 | 99.9 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 20.9 | 105 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 9.79 | 97.9 |
| **13C4-PFHpA** | | 5:28 | 10.0 | 10.4 | 104 |
| **13C8-PFOA** | | 6:10 | 10.0 | 9.96 | 99.6 |
| **13C9-PFNA** | | 7:01 | 5.00 | 4.77 | 95.5 |
| **13C6-PFDA** | | 7:32 | 5.00 | 5.44 | 109 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.18 | 104 |
| **13C2-PFDoA** | | 8:08 | 5.00 | 5.61 | 112 |
| **13C2-PFTeDA** | | 8:49 | 5.00 | 4.88 | 97.5 |
| **13C3-PFBS** | | 4:57 | 9.18 | 9.65 | 105 |
| **13C3-PFHxS** | | 6:16 | 10.0 | 10.2 | 102 |
| **13C8-PFOS** | | 7:38 | 10.0 | 11.2 | 112 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 15.9 | 79.4 |
| **13C2-6:2 FTS** | | 5:53 | 20.0 | 15.4 | 76.8 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 19.8 | 98.8 |
| **13C8-PFOSA** | | 8:43 | 10.0 | 10.1 | 101 |
| **D3-N-MeFOSA** | | 10:09 | 10.0 | 10.2 | 102 |
| **D5-N-EtFOSA** | | 10:26 | 10.0 | 10.8 | 108 |
| **D3-MeFOSAA** | | 7:36 | 20.0 | 17.1 | 85.5 |
| **D5-EtFOSAA** | | 7:44 | 20.0 | 16.6 | 83.0 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 101 | 101 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 101 | 101 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 43.5 | 109 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_243S26__Form4B_SJ2764766.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4A**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | MISSING | **VER Data Filename:** | FC0L_243 S: 35 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 21-Jul-2020 |
| **LC Column ID:** | | **Analysis Time:** | 16:37:57 |

| COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **PFBA** | | 1:49 | 40.0 | 38.4 | 96.0 |
| **PFPeA** | | 4:24 | 20.0 | 19.6 | 98.0 |
| **PFHxA** | | 5:00 | 10.0 | 9.37 | 93.7 |
| **PFHpA** | | 5:27 | 10.0 | 9.80 | 98.0 |
| **PFOA** | | 6:09 | 10.0 | 9.13 | 91.3 |
| **PFNA** | | 7:00 | 10.0 | 9.97 | 99.7 |
| **PFDA** | | 7:32 | 10.0 | 9.55 | 95.5 |
| **PFUnA** | | 7:52 | 10.0 | 9.30 | 93.0 |
| **PFDoA** | | 8:07 | 10.0 | 9.50 | 95.0 |
| **PFTrDA** | | 8:25 | 10.0 | 9.03 | 90.3 |
| **PFTeDA** | | 8:48 | 10.0 | 10.3 | 103 |
| **PFBS** | | 4:57 | 10.0 | 9.68 | 96.8 |
| **PFPeS** | | 5:29 | 10.0 | 10.8 | 108 |
| **PFHxS** | | 6:15 | 10.0 | 9.57 | 95.7 |
| **PFHpS** | | 7:07 | 10.0 | 9.47 | 94.7 |
| **PFOS** | | 7:37 | 10.0 | 8.65 | 86.5 |
| **PFNS** | | 7:57 | 10.0 | 9.82 | 98.2 |
| **PFDS** | | 8:13 | 10.0 | 9.02 | 90.2 |
| **PFDoS** | | 8:58 | 10.0 | 9.62 | 96.2 |
| **4:2 FTS** | | 4:53 | 40.0 | 38.4 | 96.0 |
| **6:2 FTS** | | 5:52 | 36.0 | 36.7 | 102 |
| **8:2 FTS** | | 7:22 | 40.0 | 33.5 | 83.7 |
| **PFOSA** | | 8:42 | 10.0 | 9.24 | 92.4 |
| **N-MeFOSA** | | 10:08 | 11.5 | 12.0 | 105 |
| **N-EtFOSA** | | 10:26 | 25.0 | 23.6 | 94.4 |
| **MeFOSAA** | | 7:35 | 10.0 | 9.86 | 98.6 |
| **EtFOSAA** | | 7:44 | 10.0 | 9.06 | 90.6 |
| **N-MeFOSE** | | 10:01 | 100 | 99.2 | 99.2 |
| **N-EtFOSE** | | 10:19 | 75.0 | 75.2 | 100 |
| **HFPO-DA** | | 5:09 | 40.0 | 37.6 | 94.0 |
| **ADONA** | | 5:39 | 40.0 | 38.5 | 96.3 |
| **9Cl-PF3ONS** | | 7:51 | 40.0 | 38.9 | 97.2 |
| **11Cl-PF3OUdS** | | 8:26 | 40.0 | 39.2 | 98.1 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4A.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_243S35__Form4A_SJ2764772.html; Workgroup: WG72779; Design ID: 3769 ]

**SGS AXYS METHOD MLA-110 Rev 02**

**Form 4B**
**LC MS/MS CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | MISSING | **VER Data Filename:** | FC0L_243 S: 35 |
| **Instrument ID:** | LCMS/MS | **Analysis Date:** | 21-Jul-2020 |
| **LC Column ID:** | | **Analysis Time:** | 16:37:57 |

| LABELED COMPOUND | LAB FLAG [1] | RETENTION TIME | EXPECTED CONC. (ng) | CONC. FOUND (ng) | RECOVERY (%) |
|---|---|---|---|---|---|
| **13C4-PFBA** | | 1:49 | 40.0 | 40.0 | 99.9 |
| **13C5-PFPeA** | | 4:24 | 20.0 | 20.1 | 100 |
| **13C5-PFHxA** | | 5:00 | 10.0 | 10.3 | 103 |
| **13C4-PFHpA** | | 5:27 | 10.0 | 10.2 | 102 |
| **13C8-PFOA** | | 6:09 | 10.0 | 9.38 | 93.8 |
| **13C9-PFNA** | | 7:00 | 5.00 | 4.88 | 97.7 |
| **13C6-PFDA** | | 7:32 | 5.00 | 4.92 | 98.5 |
| **13C7-PFUnA** | | 7:52 | 5.00 | 5.05 | 101 |
| **13C2-PFDoA** | | 8:07 | 5.00 | 5.16 | 103 |
| **13C2-PFTeDA** | | 8:48 | 5.00 | 4.62 | 92.5 |
| **13C3-PFBS** | | 4:57 | 9.18 | 10.7 | 116 |
| **13C3-PFHxS** | | 6:14 | 10.0 | 10.3 | 103 |
| **13C8-PFOS** | | 7:37 | 10.0 | 11.1 | 111 |
| **13C2-4:2 FTS** | | 4:53 | 20.0 | 17.1 | 85.6 |
| **13C2-6:2 FTS** | | 5:52 | 20.0 | 16.3 | 81.4 |
| **13C2-8:2 FTS** | | 7:22 | 20.0 | 19.4 | 96.8 |
| **13C8-PFOSA** | | 8:42 | 10.0 | 10.1 | 101 |
| **D3-N-MeFOSA** | | 10:08 | 10.0 | 10.3 | 103 |
| **D5-N-EtFOSA** | | 10:25 | 10.0 | 10.1 | 101 |
| **D3-MeFOSAA** | | 7:35 | 20.0 | 15.3 | 76.5 |
| **D5-EtFOSAA** | | 7:43 | 20.0 | 16.2 | 81.1 |
| **d7-NMe-FOSE** | | 10:00 | 100 | 105 | 105 |
| **d9-NEt-FOSE** | | 10:18 | 100 | 98.4 | 98.4 |
| **13C3-HFPO-DA** | | 5:09 | 40.0 | 41.2 | 103 |

(1) Where applicable, custom lab flags have been used on this report.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Jordan Berends_____

For Axys Internal Use Only [ XSL Template: FC-Form4B.xsl; Created: 27-Jul-2020 17:09:13; Application: XMLTransformer-1.18.8; Report Filename: PFOA_FC_LC_FC0L_243S35__Form4B_SJ2764772.html; Workgroup: WG72779; Design ID: 3769 ]

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| Bisphenols | Bisphenol A | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol AF | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol B | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol E | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol F | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Bisphenol S | SGS AXYS MLA-113 | MLA-113 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| OC Pesticides | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "Organochlorine Pesticides" category (CA only) | EPA 8081 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Pesticides" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Chlordane, technical | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | Y | Y | | | Y | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | Y | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | | | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | Y | | | | |
| | | EPA 8081 | MLA-007 | | | | | | | Y | Y | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Mirex | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | | | Y | Y | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-028 | MLA-028 | Y | | | | Y | | Y | | | | | | Y | | | Y | Y | | | | | Y | | | | | Y | | | | | | | Y | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-228 | MLA-228 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | Y | | | | | | | | | |
| PAH | "Extractable Organics" category (CA only) | EPA 8270 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

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file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | "Semi-volatile Organic Compounds" category (CA only) | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-Methylnaphthalene | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | | | | Y | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Dibenz[a,h]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | | Y | | | |
| | | EPA 8270 | MLA-021 | | | | | | | Y | Y | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | Y | | | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| PCB Aroclors | "Organochlorine Pesticides and PCBs" category (CA only) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | "PCBs" category (CA only) | EPA 8270 | MLA-007 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | Y | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | Y | | | | | | | | | | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | | Y | Y | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | | Y | | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |
| | PCB 158/160 | EPA 1668 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | Y | | | | | | | Y | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | Y | Y | Y | Y | Y | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 56 2,3,3',4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | Y | | | | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | PCB 98 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | | | Y | Y | | Y | Y | Y | Y | | | | Y | | | Y | | | | | | | Y | | | Y | Y | Y | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | |
| | PCBs, as congeners | EPA 1668 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | | |
| | Total Dichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Heptachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Hexachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Monochlorobiphenyls | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Nonachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Octachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | Y | | | | | | Y | | |
| | Total Pentachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| | Total Trichlorobiphenyls | EPA 8270 | MLA-007 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | Y | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | | |
| | | SGS AXYS MLA-210 | MLA-210 | | | | | Y | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-908 | MLA-908 | | | | | | | Y | | | | | Y | | | | | Y | | | Y | | | | | | | | Y | | | | | Y | | | |
| PCDDF | "Dioxins and Dibenzofurans" category (CA only) | EPA 1613 | MLA-017 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | | Y | | | | | | Y | | | | Y | Y | | Y | Y | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | Y | Y | | | | Y | | | | Y | | | | Y | Y | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | OCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | OCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | Y | | | | Y | | | | | | Y | | | | | Y | Y | | Y | Y | | Y | Y | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | Y | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | Y | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | Y | | Y | | | | | | | | | Y | Y | | | | | Y | | | | | | Y | | | | | | | |
| | Total HpCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HpCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HxCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total HxCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PCDD | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDD/F | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PCDF | EPA 1613 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | |
| | Total PeCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total PeCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total TCDD | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Total TCDF | EPA 1613 | MLA-017 | | Y | | | | | Y | | | | | | | | | | Y | | | | | | Y | | | | | Y | Y | | | | | | | |
| | | EPA 8290 | MLA-017 | | Y | | | | | Y | Y | | Y | | Y | | | | | Y | | | Y | Y | | Y | | | | | Y | | | | | | Y | | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-217 | MLA-217 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| PFAS | "Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only) | DoD QSM Version 5.1 | MLA-110 | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3UdS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | | |
| | 4,8-dioxa-3H-perfluorononanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 4:2 Fluorotelomersulfonate (4:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | 6:2 Fluorotelomersulfonate (6:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | 8:2 Fluorotelomersulfonate (8:2 FTS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sufonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | | | | | | | | | Y | | | | | | | | | | | Y | | | | | | | |
| | Dodecafluoro-3H-4,8-dioxanonanoate (ADONA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | | |
| | Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | | | | | | | | | | Y | Y | | | | | | | | Y | Y | Y | | | | | | | | | Y | Y |
| | Hexaflurorpropylene oxide dimer acid (HFPO-DA) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctane sulfonamide (EtFOSAm) | SGS AXYS MLA-110 | MLA-110 | | | | | | | Y | | Y | | | | | | | | Y | Y | | | | | | | | | | Y | | Y | | | | | |
| | N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | | | | | | | Y | Y | Y | Y | | | | | | Y | | Y | Y | | | | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamide (N-MeFOSA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | SGS AXYS MLA-110 | MLA-110 | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | | Y | | | | | Y | Y | Y |
| | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | |

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| | | | | Serum | Solids | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | Y | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | Y | | Y | Y | | | | | |
| | | SGS AXYS MLA-041 | MLA-041 | | | | | Y | | Y | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-110 | MLA-110 | | | Y | Y | Y | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | | | | Y | | Y | Y | | Y | | Y | | | | Y | Y | Y |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxolinic acid | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | Y | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | | | | Y | | | | | Y | | | | | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | tauroursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | ursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | Y | | | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | | | | |
| TOP | Perfluorobutanesulfonate (PFBS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanesulfonate (PFDS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanesulfonate (PFDoS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanesulfonate (PFHpS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanesulfonate (PFNS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanesulfonate (PFPeS) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotetradecanoate (PFTeDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluorotridecanoate (PFTrDA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | SGS AXYS MLA-111 | MLA-111 | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | |

Note * Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

## Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 50

| | | | | Serum | Solids | | | | | | | | | | | | Tissue | | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | | | | AFFF | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | CALA | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | ANAB DoD ** | ANAB ISO 17025 | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | CALA | CALA | Alaska DEC | ANAB DoD ** | ANAB ISO 17025 | California WB | Florida DOH | Maine DOH | Minnesota DOH | New Jersey DEP | New York DOH | Pennsylvania DEP | Virginia DGS | Washington DE * | ANAB DoD ** | ANAB ISO 17025 |
| Note ** | PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Legend**

| | |
|---|---|
| Y | Accreditation scope |
| AFFF | Aqueous film forning foam |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PPCP | Pharmaceutical and Personal Care Products |
| TOP | Total Oxidizable Precursors |
| California WB | California Water Boards, Lab ID 2911 |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Alaska DEC | Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014 |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| ANAB DoD | ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 Standard) |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2017 Standard) |

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP Certificate ADE-1861

CALA Testing Accreditation No. A2637

APPENDIX S
PACE LABORATORY REPORTS

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 27, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

Dear Andrew Tarara:
Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on March 27, 2020, to update the sample IDs for Pace samples 10509910-014 and 10509910-015.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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Minneapolis, MN 55414
(612)607-1700

# CERTIFICATIONS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

**Pace Analytical Services Virginia Minnesota**

315 Chestnut Street, Virginia, MN 55792
Montana Certificate #CERT0103
Alaska Certification UST-107
Minnesota Dept of Health Certification #: 027-137-445
North Dakota Certification: # R-203
Wisconsin DNR Certification # : 998027470
WA Department of Ecology Lab ID# C1007

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## SAMPLE SUMMARY

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| 10509910001 | RC3-WAT-BULK-01-022420 | Water | 02/24/20 10:10 | 02/26/20 18:45 |
| 10509910002 | RC5-WAT-BULK-01-022420 | Water | 02/24/20 13:15 | 02/26/20 18:45 |
| 10509910003 | RC7a-WAT-BULK-01-022420 | Water | 02/24/20 17:20 | 02/26/20 18:45 |
| 10509910004 | RC14-WAT-BULK-01-022420 | Water | 02/24/20 18:00 | 02/26/20 18:45 |
| 10509910005 | RC17a-WAT-BULK-01-022420 | Water | 02/24/20 15:30 | 02/26/20 18:45 |
| 10509910006 | RC17a-WAT-BULK-02-022420 | Water | 02/24/20 15:35 | 02/26/20 18:45 |
| 10509910007 | RC17a-WAT-BULK-03-022420 | Water | 02/24/20 15:40 | 02/26/20 18:45 |
| 10509910008 | RC18-WAT-BULK-01-022520 | Water | 02/25/20 10:45 | 02/26/20 18:45 |
| 10509910009 | RC21-WAT-BULK-01-022420 | Water | 02/24/20 17:15 | 02/26/20 18:45 |
| 10509910010 | WL18-WAT-BULK-01-022620 | Water | 02/26/20 16:15 | 02/26/20 18:45 |
| 10509910011 | WL15-WAT-BULK-01-022620 | Water | 02/26/20 14:00 | 02/26/20 18:45 |
| 10509910012 | WL12-WAT-BULK-01-022620 | Water | 02/26/20 13:50 | 02/26/20 18:45 |
| 10509910013 | EP8-WAT-BULK-01-022520 | Water | 02/25/20 17:30 | 02/26/20 18:45 |
| 10509910014 | EP11-WAT-BULK-01-022520 | Water | 02/25/20 10:50 | 02/26/20 18:45 |
| 10509910015 | EP11-WAT-BULK-02-022520 | Water | 02/25/20 10:55 | 02/26/20 18:45 |
| 10509910016 | EP16-WAT-BULK-01-022520 | Water | 02/25/20 11:10 | 02/26/20 18:45 |
| 10509910017 | EP19-WAT-BULK-01-022520 | Water | 02/25/20 12:45 | 02/26/20 18:45 |
| 10509910018 | EP20-WAT-BULK-01-022520 | Water | 02/25/20 18:00 | 02/26/20 18:45 |
| 10509910019 | WL6-WAT-BULK-01-022520 | Water | 02/25/20 16:10 | 02/26/20 18:45 |
| 10509910020 | WL7-WAT-BULK-01-022520 | Water | 02/25/20 17:00 | 02/26/20 18:45 |
| 10509910021 | WL9-WAT-BULK-01-022520 | Water | 02/25/20 15:25 | 02/26/20 18:45 |
| 10509910022 | WL9-WAT-BULK-02-022520 | Water | 02/25/20 15:30 | 02/26/20 18:45 |
| 10509910023 | WL9-WAT-BULK-03-022520 | Water | 02/25/20 15:35 | 02/26/20 18:45 |
| 10509910024 | VB2-WAT-BULK-01-022620 | Water | 02/26/20 15:50 | 02/26/20 18:45 |

## REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| 10509910001 | RC3-WAT-BULK-01-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910002 | RC5-WAT-BULK-01-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910003 | RC7a-WAT-BULK-01-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910004 | RC14-WAT-BULK-01-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910005 | RC17a-WAT-BULK-01-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910006 | RC17a-WAT-BULK-02-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910007 | RC17a-WAT-BULK-03-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910008 | RC18-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910009 | RC21-WAT-BULK-01-022420 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910010 | WL18-WAT-BULK-01-022620 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910011 | WL15-WAT-BULK-01-022620 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910012 | WL12-WAT-BULK-01-022620 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910013 | EP8-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |



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Minneapolis, MN 55414
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## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910014 | EP11-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910015 | EP11-WAT-BULK-02-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910016 | EP16-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910017 | EP19-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910018 | EP20-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910019 | WL6-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910020 | WL7-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910021 | WL9-WAT-BULK-01-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910022 | WL9-WAT-BULK-02-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910023 | WL9-WAT-BULK-03-022520 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |
| 10509910024 | VB2-WAT-BULK-01-022620 | SM 2540C | EPT | 1 | PASI-M |
| | | EPA 300.0 | KEO | 1 | PASI-M |
| | | SM 5310C | ZJT | 1 | PASI-V |



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Minneapolis, MN 55414
(612)607-1700

## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10509910001** | **RC3-WAT-BULK-01-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 1040 | mg/L | 100 | 03/02/20 17:29 | |
| EPA 300.0 | Chloride | 495 | mg/L | 12.0 | 03/12/20 00:52 | M6 |
| SM 5310C | Total Organic Carbon | 8.1 | mg/L | 1.0 | 03/02/20 20:48 | |
| **10509910002** | **RC5-WAT-BULK-01-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 1440 | mg/L | 100 | 03/02/20 17:29 | |
| EPA 300.0 | Chloride | 792 | mg/L | 12.0 | 03/11/20 22:54 | |
| SM 5310C | Total Organic Carbon | 6.4 | mg/L | 1.0 | 03/02/20 21:02 | |
| **10509910003** | **RC7a-WAT-BULK-01-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 1390 | mg/L | 100 | 03/02/20 17:29 | |
| EPA 300.0 | Chloride | 625 | mg/L | 12.0 | 03/12/20 01:55 | |
| SM 5310C | Total Organic Carbon | 5.3 | mg/L | 1.0 | 03/02/20 21:15 | |
| **10509910004** | **RC14-WAT-BULK-01-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 307 | mg/L | 10.0 | 03/02/20 17:29 | |
| EPA 300.0 | Chloride | 112 | mg/L | 6.0 | 03/12/20 04:40 | |
| SM 5310C | Total Organic Carbon | 5.6 | mg/L | 1.0 | 03/02/20 21:53 | |
| **10509910005** | **RC17a-WAT-BULK-01-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 292 | mg/L | 10.0 | 03/02/20 17:29 | |
| EPA 300.0 | Chloride | 111 | mg/L | 6.0 | 03/12/20 02:13 | |
| SM 5310C | Total Organic Carbon | 5.6 | mg/L | 1.0 | 03/02/20 22:06 | |
| **10509910006** | **RC17a-WAT-BULK-02-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 325 | mg/L | 10.0 | 03/02/20 17:29 | |
| EPA 300.0 | Chloride | 113 | mg/L | 6.0 | 03/12/20 04:58 | |
| SM 5310C | Total Organic Carbon | 5.6 | mg/L | 1.0 | 03/02/20 22:20 | |
| **10509910007** | **RC17a-WAT-BULK-03-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 310 | mg/L | 10.0 | 03/02/20 17:29 | |
| EPA 300.0 | Chloride | 109 | mg/L | 6.0 | 03/12/20 02:31 | M1 |
| SM 5310C | Total Organic Carbon | 5.5 | mg/L | 1.0 | 03/02/20 22:33 | |
| **10509910008** | **RC18-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 332 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 110 | mg/L | 6.0 | 03/12/20 05:16 | |
| SM 5310C | Total Organic Carbon | 5.6 | mg/L | 1.0 | 03/02/20 23:12 | |
| **10509910009** | **RC21-WAT-BULK-01-022420** | | | | | |
| SM 2540C | Total Dissolved Solids | 300 | mg/L | 10.0 | 03/02/20 16:32 | D6 |
| EPA 300.0 | Chloride | 113 | mg/L | 6.0 | 03/12/20 05:33 | |
| SM 5310C | Total Organic Carbon | 5.6 | mg/L | 1.0 | 03/02/20 23:25 | |
| **10509910010** | **WL18-WAT-BULK-01-022620** | | | | | |
| SM 2540C | Total Dissolved Solids | 316 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 86.0 | mg/L | 6.0 | 03/12/20 06:04 | |
| SM 5310C | Total Organic Carbon | 5.2 | mg/L | 1.0 | 03/02/20 23:39 | |
| **10509910011** | **WL15-WAT-BULK-01-022620** | | | | | |
| SM 2540C | Total Dissolved Solids | 297 | mg/L | 10.0 | 03/02/20 16:32 | |

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10509910011** | **WL15-WAT-BULK-01-022620** | | | | | |
| EPA 300.0 | Chloride | 73.8 | mg/L | 6.0 | 03/12/20 06:26 | |
| SM 5310C | Total Organic Carbon | 4.9 | mg/L | 1.0 | 03/06/20 17:18 | |
| **10509910012** | **WL12-WAT-BULK-01-022620** | | | | | |
| SM 2540C | Total Dissolved Solids | 304 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 69.8 | mg/L | 6.0 | 03/12/20 06:44 | |
| SM 5310C | Total Organic Carbon | 4.9 | mg/L | 1.0 | 03/06/20 17:58 | |
| **10509910013** | **EP8-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 350 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 113 | mg/L | 6.0 | 03/12/20 09:31 | |
| SM 5310C | Total Organic Carbon | 7.8 | mg/L | 1.0 | 03/06/20 18:11 | |
| **10509910014** | **EP11-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 258 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 42.3 | mg/L | 6.0 | 03/12/20 08:41 | |
| SM 5310C | Total Organic Carbon | 4.4 | mg/L | 1.0 | 03/06/20 18:24 | |
| **10509910015** | **EP11-WAT-BULK-02-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 262 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 42.5 | mg/L | 6.0 | 03/12/20 09:14 | |
| SM 5310C | Total Organic Carbon | 4.2 | mg/L | 1.0 | 03/06/20 18:37 | |
| **10509910016** | **EP16-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 292 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 69.2 | mg/L | 6.0 | 03/12/20 09:49 | |
| SM 5310C | Total Organic Carbon | 5.2 | mg/L | 1.0 | 03/06/20 19:16 | |
| **10509910017** | **EP19-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 345 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 108 | mg/L | 6.0 | 03/12/20 10:07 | |
| SM 5310C | Total Organic Carbon | 7.5 | mg/L | 1.0 | 03/06/20 19:29 | |
| **10509910018** | **EP20-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 397 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 99.4 | mg/L | 6.0 | 03/12/20 10:25 | |
| SM 5310C | Total Organic Carbon | 4.8 | mg/L | 1.0 | 03/06/20 19:42 | |
| **10509910019** | **WL6-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 312 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 68.5 | mg/L | 6.0 | 03/12/20 12:35 | |
| SM 5310C | Total Organic Carbon | 5.0 | mg/L | 1.0 | 03/06/20 19:55 | |
| **10509910020** | **WL7-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 303 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 69.0 | mg/L | 6.0 | 03/12/20 12:53 | |
| SM 5310C | Total Organic Carbon | 5.0 | mg/L | 1.0 | 03/06/20 20:08 | |
| **10509910021** | **WL9-WAT-BULK-01-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 312 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 55.3 | mg/L | 6.0 | 03/13/20 08:48 | M1 |

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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10509910021** | **WL9-WAT-BULK-01-022520** | | | | | |
| SM 5310C | Total Organic Carbon | 4.9 | mg/L | 1.0 | 03/06/20 20:21 | |
| **10509910022** | **WL9-WAT-BULK-02-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 313 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 71.3 | mg/L | 6.0 | 03/12/20 16:42 | |
| SM 5310C | Total Organic Carbon | 5.0 | mg/L | 1.0 | 03/06/20 20:35 | |
| **10509910023** | **WL9-WAT-BULK-03-022520** | | | | | |
| SM 2540C | Total Dissolved Solids | 299 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 70.5 | mg/L | 6.0 | 03/13/20 13:40 | |
| SM 5310C | Total Organic Carbon | 5.0 | mg/L | 1.0 | 03/06/20 20:48 | |
| **10509910024** | **VB2-WAT-BULK-01-022620** | | | | | |
| SM 2540C | Total Dissolved Solids | 344 | mg/L | 10.0 | 03/02/20 16:32 | |
| EPA 300.0 | Chloride | 46.3 | mg/L | 6.0 | 03/12/20 17:00 | |
| SM 5310C | Total Organic Carbon | 1.3 | mg/L | 1.0 | 03/06/20 21:53 | |



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Method:** **SM 2540C**
**Description:** 2540C Total Dissolved Solids
**Client:** AECOM MN ND
**Date:** March 27, 2020

**General Information:**
24 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 662718

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 3555884)
  - Total Dissolved Solids

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Method:** **EPA 300.0**
**Description:** 300.0 IC Anions
**Client:** AECOM MN ND
**Date:** March 27, 2020

**General Information:**
24 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 664370

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10509910001,10509910007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3563840)
  - Chloride

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3563837)
  - Chloride
- MSD (Lab ID: 3563838)
  - Chloride

QC Batch: 664372

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10509910021,10509910023

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3563843)
  - Chloride
- MSD (Lab ID: 3563844)
  - Chloride

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Method:** **SM 5310C**
**Description:** 5310C TOC
**Client:** AECOM MN ND
**Date:** March 27, 2020

**General Information:**
24 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC3-WAT-BULK-01-022420** **Lab ID: 10509910001** Collected: 02/24/20 10:10 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **1040** | mg/L | 100 | 50.0 | 1 | | 03/02/20 17:29 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **495** | mg/L | 12.0 | 1.2 | 10 | | 03/12/20 00:52 | 16887-00-6 | M6 |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **8.1** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 20:48 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC5-WAT-BULK-01-022420** **Lab ID: 10509910002** Collected: 02/24/20 13:15 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **1440** | mg/L | 100 | 50.0 | 1 | | 03/02/20 17:29 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **792** | mg/L | 12.0 | 1.2 | 10 | | 03/11/20 22:54 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **6.4** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 21:02 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC7a-WAT-BULK-01-022420** **Lab ID: 10509910003** Collected: 02/24/20 17:20 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **1390** | mg/L | 100 | 50.0 | 1 | | 03/02/20 17:29 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **625** | mg/L | 12.0 | 1.2 | 10 | | 03/12/20 01:55 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.3** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 21:15 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC14-WAT-BULK-01-022420** **Lab ID: 10509910004** Collected: 02/24/20 18:00 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **307** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 17:29 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **112** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 04:40 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.6** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 21:53 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC17a-WAT-BULK-01-022420** **Lab ID: 10509910005** Collected: 02/24/20 15:30 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **292** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 17:29 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **111** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 02:13 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.6** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 22:06 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC17a-WAT-BULK-02-022420** **Lab ID: 10509910006** Collected: 02/24/20 15:35 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **325** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 17:29 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **113** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 04:58 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.6** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 22:20 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC17a-WAT-BULK-03-022420** **Lab ID: 10509910007** Collected: 02/24/20 15:40 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **310** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 17:29 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **109** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 02:31 | 16887-00-6 | M1 |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.5** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 22:33 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC18-WAT-BULK-01-022520** **Lab ID: 10509910008** Collected: 02/25/20 10:45 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **332** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **110** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 05:16 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.6** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 23:12 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: RC21-WAT-BULK-01-022420** **Lab ID: 10509910009** Collected: 02/24/20 17:15 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **300** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | D6 |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **113** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 05:33 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.6** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 23:25 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL18-WAT-BULK-01-022620** **Lab ID: 10509910010** Collected: 02/26/20 16:15 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **316** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **86.0** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 06:04 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.2** | mg/L | 1.0 | 0.39 | 1 | | 03/02/20 23:39 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL15-WAT-BULK-01-022620** **Lab ID: 10509910011** Collected: 02/26/20 14:00 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **297** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **73.8** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 06:26 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **4.9** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 17:18 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL12-WAT-BULK-01-022620** **Lab ID: 10509910012** Collected: 02/26/20 13:50 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **304** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **69.8** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 06:44 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **4.9** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 17:58 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: EP8-WAT-BULK-01-022520** **Lab ID: 10509910013** Collected: 02/25/20 17:30 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **350** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **113** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 09:31 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **7.8** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 18:11 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: EP11-WAT-BULK-01-022520** **Lab ID: 10509910014** Collected: 02/25/20 10:50 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **258** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **42.3** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 08:41 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **4.4** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 18:24 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: EP11-WAT-BULK-02-022520** **Lab ID: 10509910015** Collected: 02/25/20 10:55 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **262** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **42.5** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 09:14 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **4.2** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 18:37 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: EP16-WAT-BULK-01-022520** **Lab ID: 10509910016** Collected: 02/25/20 11:10 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **292** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **69.2** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 09:49 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.2** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 19:16 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: EP19-WAT-BULK-01-022520** **Lab ID: 10509910017** Collected: 02/25/20 12:45 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **345** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **108** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 10:07 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **7.5** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 19:29 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: EP20-WAT-BULK-01-022520** **Lab ID: 10509910018** Collected: 02/25/20 18:00 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **397** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **99.4** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 10:25 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **4.8** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 19:42 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL6-WAT-BULK-01-022520** **Lab ID: 10509910019** Collected: 02/25/20 16:10 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **312** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **68.5** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 12:35 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.0** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 19:55 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL7-WAT-BULK-01-022520** **Lab ID: 10509910020** Collected: 02/25/20 17:00 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **303** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **69.0** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 12:53 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.0** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 20:08 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL9-WAT-BULK-01-022520** **Lab ID: 10509910021** Collected: 02/25/20 15:25 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **312** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **55.3** | mg/L | 6.0 | 0.62 | 5 | | 03/13/20 08:48 | 16887-00-6 | M1 |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **4.9** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 20:21 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL9-WAT-BULK-02-022520** **Lab ID: 10509910022** Collected: 02/25/20 15:30 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **313** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **71.3** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 16:42 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.0** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 20:35 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: WL9-WAT-BULK-03-022520** **Lab ID: 10509910023** Collected: 02/25/20 15:35 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **299** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **70.5** | mg/L | 6.0 | 0.62 | 5 | | 03/13/20 13:40 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **5.0** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 20:48 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

**Sample: VB2-WAT-BULK-01-022620** **Lab ID: 10509910024** Collected: 02/26/20 15:50 Received: 02/26/20 18:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **344** | mg/L | 10.0 | 5.0 | 1 | | 03/02/20 16:32 | | |
| **300.0 IC Anions** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **46.3** | mg/L | 6.0 | 0.62 | 5 | | 03/12/20 17:00 | 16887-00-6 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| Total Organic Carbon | **1.3** | mg/L | 1.0 | 0.39 | 1 | | 03/06/20 21:53 | 7440-44-0 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

QC Batch: 662716 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 10509910001, 10509910002, 10509910003, 10509910004, 10509910005, 10509910006, 10509910007

METHOD BLANK: 3555874 Matrix: Water
Associated Lab Samples: 10509910001, 10509910002, 10509910003, 10509910004, 10509910005, 10509910006, 10509910007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 10.0 | 5.0 | 03/02/20 17:29 | |

LABORATORY CONTROL SAMPLE: 3555875

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 1000 | 1020 | 102 | 80-120 | |

SAMPLE DUPLICATE: 3555876

| Parameter | Units | 10509730001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 220 | 215 | 2 | 5 | |

SAMPLE DUPLICATE: 3555877

| Parameter | Units | 10509910007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 310 | 325 | 5 | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

QC Batch: 662718 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 10509910008, 10509910009, 10509910010, 10509910011, 10509910012, 10509910013, 10509910014, 10509910015, 10509910016, 10509910017, 10509910018, 10509910019, 10509910020, 10509910021, 10509910022, 10509910023, 10509910024

METHOD BLANK: 3555882 Matrix: Water
Associated Lab Samples: 10509910008, 10509910009, 10509910010, 10509910011, 10509910012, 10509910013, 10509910014, 10509910015, 10509910016, 10509910017, 10509910018, 10509910019, 10509910020, 10509910021, 10509910022, 10509910023, 10509910024

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 10.0 | 5.0 | 03/02/20 16:32 | |

LABORATORY CONTROL SAMPLE: 3555883

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 1000 | 1020 | 102 | 80-120 | |

SAMPLE DUPLICATE: 3555884

| Parameter | Units | 10509910009 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 339 | 12 | 5 | D6 |

SAMPLE DUPLICATE: 3555885

| Parameter | Units | 10509910023 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 299 | 305 | 2 | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

QC Batch: 664370 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 10509910001, 10509910002, 10509910003, 10509910004, 10509910005, 10509910006, 10509910007, 10509910008, 10509910009, 10509910010, 10509910011, 10509910012, 10509910013, 10509910014, 10509910015, 10509910016, 10509910017, 10509910018, 10509910019, 10509910020

METHOD BLANK: 3563835 Matrix: Water
Associated Lab Samples: 10509910001, 10509910002, 10509910003, 10509910004, 10509910005, 10509910006, 10509910007, 10509910008, 10509910009, 10509910010, 10509910011, 10509910012, 10509910013, 10509910014, 10509910015, 10509910016, 10509910017, 10509910018, 10509910019, 10509910020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.2 | 0.12 | 03/11/20 17:46 | |

LABORATORY CONTROL SAMPLE: 3563836

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 12.5 | 12.9 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3563837 3563838

| Parameter | Units | 10509910001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 495 | 125 | 125 | 584 | 597 | 71 | 81 | 90-110 | 2 | 20 | M6 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3563839 3563840

| Parameter | Units | 10509910007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 109 | 62.5 | 62.5 | 165 | 165 | 90 | 89 | 90-110 | 0 | 20 | M1 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

QC Batch: 664372 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 10509910021, 10509910022, 10509910023, 10509910024

METHOD BLANK: 3563841 Matrix: Water
Associated Lab Samples: 10509910021, 10509910022, 10509910023, 10509910024

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.2 | 0.12 | 03/14/20 10:24 | |

LABORATORY CONTROL SAMPLE: 3563842

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 12.5 | 12.0 | 96 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3563843 3563844

| Parameter | Units | 10509910021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 55.3 | 62.5 | 62.5 | 136 | 138 | 129 | 133 | 90-110 | 2 | 20 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3563845 3563846

| Parameter | Units | 10509910023 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 70.5 | 62.5 | 62.5 | 129 | 127 | 94 | 91 | 90-110 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

QC Batch: 184815 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 10509910001, 10509910002, 10509910003, 10509910004, 10509910005, 10509910006, 10509910007, 10509910008, 10509910009, 10509910010

METHOD BLANK: 728680 Matrix: Water
Associated Lab Samples: 10509910001, 10509910002, 10509910003, 10509910004, 10509910005, 10509910006, 10509910007, 10509910008, 10509910009, 10509910010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | ND | 1.0 | 0.39 | 03/02/20 17:19 | |

LABORATORY CONTROL SAMPLE: 728681

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 25 | 24.5 | 98 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728682 728683

| Parameter | Units | 10509760001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 6.4 | 25 | 25 | 30.4 | 30.7 | 96 | 98 | 80-120 | 1 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728684 728685

| Parameter | Units | 10509910007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 5.5 | 25 | 25 | 29.4 | 29.7 | 95 | 96 | 80-120 | 1 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

QC Batch: 185181 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 10509910011, 10509910012, 10509910013, 10509910014, 10509910015, 10509910016, 10509910017, 10509910018, 10509910019, 10509910020, 10509910021, 10509910022, 10509910023, 10509910024

METHOD BLANK: 730181 Matrix: Water
Associated Lab Samples: 10509910011, 10509910012, 10509910013, 10509910014, 10509910015, 10509910016, 10509910017, 10509910018, 10509910019, 10509910020, 10509910021, 10509910022, 10509910023, 10509910024

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | ND | 1.0 | 0.39 | 03/06/20 16:41 | |

LABORATORY CONTROL SAMPLE: 730182

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 25 | 24.7 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 730183 730184

| Parameter | Units | 10509910011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 4.9 | 25 | 25 | 30.2 | 30.5 | 101 | 102 | 80-120 | 1 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 730185 730186

| Parameter | Units | 10509910023 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 5.0 | 25 | 25 | 30.0 | 30.3 | 100 | 102 | 80-120 | 1 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-M | Pace Analytical Services - Minneapolis |
| PASI-V | Pace Analytical Services - Virginia |

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |



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Minneapolis, MN 55414
(612)607-1700

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 10509910001 | RC3-WAT-BULK-01-022420 | SM 2540C | 662716 | | |
| 10509910002 | RC5-WAT-BULK-01-022420 | SM 2540C | 662716 | | |
| 10509910003 | RC7a-WAT-BULK-01-022420 | SM 2540C | 662716 | | |
| 10509910004 | RC14-WAT-BULK-01-022420 | SM 2540C | 662716 | | |
| 10509910005 | RC17a-WAT-BULK-01-022420 | SM 2540C | 662716 | | |
| 10509910006 | RC17a-WAT-BULK-02-022420 | SM 2540C | 662716 | | |
| 10509910007 | RC17a-WAT-BULK-03-022420 | SM 2540C | 662716 | | |
| 10509910008 | RC18-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910009 | RC21-WAT-BULK-01-022420 | SM 2540C | 662718 | | |
| 10509910010 | WL18-WAT-BULK-01-022620 | SM 2540C | 662718 | | |
| 10509910011 | WL15-WAT-BULK-01-022620 | SM 2540C | 662718 | | |
| 10509910012 | WL12-WAT-BULK-01-022620 | SM 2540C | 662718 | | |
| 10509910013 | EP8-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910014 | EP11-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910015 | EP11-WAT-BULK-02-022520 | SM 2540C | 662718 | | |
| 10509910016 | EP16-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910017 | EP19-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910018 | EP20-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910019 | WL6-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910020 | WL7-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910021 | WL9-WAT-BULK-01-022520 | SM 2540C | 662718 | | |
| 10509910022 | WL9-WAT-BULK-02-022520 | SM 2540C | 662718 | | |
| 10509910023 | WL9-WAT-BULK-03-022520 | SM 2540C | 662718 | | |
| 10509910024 | VB2-WAT-BULK-01-022620 | SM 2540C | 662718 | | |
| 10509910001 | RC3-WAT-BULK-01-022420 | EPA 300.0 | 664370 | | |
| 10509910002 | RC5-WAT-BULK-01-022420 | EPA 300.0 | 664370 | | |
| 10509910003 | RC7a-WAT-BULK-01-022420 | EPA 300.0 | 664370 | | |
| 10509910004 | RC14-WAT-BULK-01-022420 | EPA 300.0 | 664370 | | |
| 10509910005 | RC17a-WAT-BULK-01-022420 | EPA 300.0 | 664370 | | |
| 10509910006 | RC17a-WAT-BULK-02-022420 | EPA 300.0 | 664370 | | |
| 10509910007 | RC17a-WAT-BULK-03-022420 | EPA 300.0 | 664370 | | |
| 10509910008 | RC18-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910009 | RC21-WAT-BULK-01-022420 | EPA 300.0 | 664370 | | |
| 10509910010 | WL18-WAT-BULK-01-022620 | EPA 300.0 | 664370 | | |
| 10509910011 | WL15-WAT-BULK-01-022620 | EPA 300.0 | 664370 | | |
| 10509910012 | WL12-WAT-BULK-01-022620 | EPA 300.0 | 664370 | | |
| 10509910013 | EP8-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910014 | EP11-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910015 | EP11-WAT-BULK-02-022520 | EPA 300.0 | 664370 | | |
| 10509910016 | EP16-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910017 | EP19-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910018 | EP20-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910019 | WL6-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910020 | WL7-WAT-BULK-01-022520 | EPA 300.0 | 664370 | | |
| 10509910021 | WL9-WAT-BULK-01-022520 | EPA 300.0 | 664372 | | |
| 10509910022 | WL9-WAT-BULK-02-022520 | EPA 300.0 | 664372 | | |
| 10509910023 | WL9-WAT-BULK-03-022520 | EPA 300.0 | 664372 | | |



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Minneapolis, MN 55414
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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007-Revised Report
Pace Project No.: 10509910

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 10509910024 | VB2-WAT-BULK-01-022620 | EPA 300.0 | 664372 | | |
| 10509910001 | RC3-WAT-BULK-01-022420 | SM 5310C | 184815 | | |
| 10509910002 | RC5-WAT-BULK-01-022420 | SM 5310C | 184815 | | |
| 10509910003 | RC7a-WAT-BULK-01-022420 | SM 5310C | 184815 | | |
| 10509910004 | RC14-WAT-BULK-01-022420 | SM 5310C | 184815 | | |
| 10509910005 | RC17a-WAT-BULK-01-022420 | SM 5310C | 184815 | | |
| 10509910006 | RC17a-WAT-BULK-02-022420 | SM 5310C | 184815 | | |
| 10509910007 | RC17a-WAT-BULK-03-022420 | SM 5310C | 184815 | | |
| 10509910008 | RC18-WAT-BULK-01-022520 | SM 5310C | 184815 | | |
| 10509910009 | RC21-WAT-BULK-01-022420 | SM 5310C | 184815 | | |
| 10509910010 | WL18-WAT-BULK-01-022620 | SM 5310C | 184815 | | |
| 10509910011 | WL15-WAT-BULK-01-022620 | SM 5310C | 185181 | | |
| 10509910012 | WL12-WAT-BULK-01-022620 | SM 5310C | 185181 | | |
| 10509910013 | EP8-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910014 | EP11-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910015 | EP11-WAT-BULK-02-022520 | SM 5310C | 185181 | | |
| 10509910016 | EP16-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910017 | EP19-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910018 | EP20-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910019 | WL6-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910020 | WL7-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910021 | WL9-WAT-BULK-01-022520 | SM 5310C | 185181 | | |
| 10509910022 | WL9-WAT-BULK-02-022520 | SM 5310C | 185181 | | |
| 10509910023 | WL9-WAT-BULK-03-022520 | SM 5310C | 185181 | | |
| 10509910024 | VB2-WAT-BULK-01-022620 | SM 5310C | 185181 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

**Section A** Required Client Information:

| | |
|---|---|
| Company: | AECOM |
| Address: | 800 LaSalle Avenue, Suite 1100 |
| | Minneapolis, MN 55402 |
| Email To: | andrew.tarara@aecom.com |
| Phone: 612-376-2047 | Fax: |
| Requested Due Date/TAT: | Standard 10-day |

**Section B** Required Project Information:

| | |
|---|---|
| Report To: | Andrew Tarara |
| Copy To: | Amanda Lanning |
| Purchase Order No.: | |
| Project Name: | MPCA P1007 |
| Project Number: | 60618753 |

**Section C** Invoice Information:

| | |
|---|---|
| Attention: | USAPImaging@aecom.com |
| Company Name: | AECOM |
| Address: | Same |
| Pace Quote Reference: | |
| Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Pace Profile #: | 22815, line 13 |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

**Section D** Required Client Information

**SAMPLE ID** (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

Requested Analysis Filtered (Y/N)

WO#: 10509910

10509910

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | TDS by 2540C | Chloride by EPA 300.0 | TOC by 5310C | Resid | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC3-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1010 | | | | 4 | X | X | | | | | X | | X | X | X | | | 01 |
| 2 | RC5-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1315 | | | | 4 | X | X | | | | | X | | X | X | X | | | 02 |
| 3 | RC7a-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1720 | | | | 4 | X | X | | | | | X | | X | X | Y | | | 03 |
| 4 | RC14-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1800 | | | | 4 | X | X | | | | | X | | X | X | X | | | 04 |
| 5 | RC17a-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1538 | | | | 4 | X | X | | | | | X | | X | X | X | | | 05 |
| 6 | RC17a-WAT-BULK-02-022420 | WT | G | 2/24/20 | 1535 | | | | 4 | X | X | | | | | X | | X | X | X | | | 06 |
| 7 | RC17a-WAT-BULK-03-022420 | WT | G | 2/24/20 | 1540 | | | | 8 | X | X | | | | | X | | X | X | X | | | 07 |
| 8 | RC18-WAT-BULK-01-022520 | WT | G | 2/25/20 | 1045 | | | | 4 | X | X | | | | | X | | X | X | X | | | 08 |
| 9 | RC21-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1795 | | | | 4 | X | X | | | | | X | | X | X | X | | | 09 |
| 10 | WL18-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1515 | | | | 4 | X | X | | | | | | | | | | | | 10 |
| 11 | WL15-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1900 | | | | 4 | X | X | | | | | | | | | | | | 11 |
| 12 | WL12-WAT-BULK-01-022420 | WT | G | 2/24/20 | 1350 | | | | 4 | X | X | | | | | | | | | | | | 12 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Amanda Lanning/AECOM | 2/24/20 | 1830 | Pace | 2/26/2020 | 8:45 | 0.9 / 6.0 | Y | N | Y |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 2/26/20

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| | | | |

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | AECOM | Report To: | Andrew Tarara | Attention: | USAPImaging@aecom.com |
| Address: | 800 LaSalle Avenue, Suite 1100 | Copy To: | Amanda Lanning | Company Name: | AECOM |
| | Minneapolis, MN 55402 | | | Address: | Same |
| Email To: | andrew.tarara@aecom.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 612-376-2047 Fax: | Project Name: | MPCA P1007 | Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Requested Due Date/TAT: | Standard 10-day | Project Number: | 60618753 | Pace Profile #: | 22815, line 13 |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER

Site Location STATE: MN

Section D Required Client Information

**SAMPLE ID**
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | TDS by 2540C | Chloride by EPA 300.0 | TOC by 5310C | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EP8-WAT-BULK-01-022520 | WT | G | 2/25/20 | 0730 | | | | 4 | X | | | | | | X | | | X | X | X | | 013 |
| 2 | EP10-WAT-BULK-01-022520 | WT | G | 2/25/20 | 0750 | | | | 4 | X | X | | | | | X | | | X | X | X | | 014 |
| 3 | EP10-WAT-BULK-02-022520 | WT | G | 2/25/20 | 0755 | | | | 4 | X | X | | | | | X | | | X | X | X | | 015 |
| 4 | EP16-WAT-BULK-01-022520 | | | 2/25/20 | 1110 | | | | 4 | X | X | | | | | X | | | X | X | X | | 016 |
| 5 | EP19-WAT-BULK-01-022520 | | | 2/25/20 | 1245 | | | | 4 | X | X | | | | | X | | | X | X | X | | 017 |
| 6 | EP20-WAT-BULK-01-022520 | | | 2/25/20 | 1800 | | | | 4 | X | X | | | | | X | | | X | X | X | | 018 |
| 7 | MW6-WAT-BULK-01-022520 | | | 2/25/20 | 1610 | | | | 4 | X | X | | | | | X | | | X | X | X | | 019 |
| 8 | MW7-WAT-BULK-01-022520 | | | 2/25/20 | 1700 | | | | 4 | X | X | | | | | X | | | X | X | X | | 020 |
| 9 | MW9-WAT-BULK-01-022520 | | | 2/25/20 | 1525 | | | | 4 | X | X | | | | | X | | | X | X | X | | 021 |
| 10 | MW9-WAT-BULK-02-022520 | | | 2/25/20 | 1530 | | | | 4 | X | X | | | | | X | | | X | X | X | | 022 |
| 11 | MW9-WAT-BULK-03-022520 | | | 2/25/20 | 1535 | | | | 8 | X | X | | | | | X | | | X | X | X | | 023 |
| 12 | VB2-WAT-BULK-01-022620 | | | 2/26/20 | 1550 | | | | 4 | X | | | | | | X | | | X | X | X | | 024 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| | Amanda Lanning/AECOM | 2/26/20 | 1830 | Pace | 2/26/20 | 1845 |

SAMPLE CONDITIONS

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 0.9 6.0 | Y | N | Y |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/26/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt Form** | Document Revised: 19Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: **F-MN-L-213-rev.31** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt**

**Client Name:** Aecom

**Project #:** **WO#: 10509910**

**PM: TS1** **Due Date: 03/12/20**

**CLIENT: AECOM**

**Courier:** ☐Fed Ex ☐UPS ☐USPS ☒Client ☐Pace ☐SpeeDee ☐Commercial **See Exceptions** ☐

**Tracking Number:**

**Custody Seal on Cooler/Box Present?** ☐Yes ☒No **Seals Intact?** ☐Yes ☒No **Biological Tissue Frozen?** ☐Yes ☐No ☒N/A

**Packing Material:** ☒Bubble Wrap ☒Bubble Bags ☒None ☐Other:_____ **Temp Blank?** ☒Yes ☐No

**Thermometer:** ☐T1(0461) ☐T2(1336) ☐T3(0459) ☐T4(0254) ☒T5(0489) **Type of Ice:** ☒Wet ☐Blue ☐None ☐Dry ☐Melted

**Did Samples Originate in West Virginia?** ☐Yes ☒No **Were All Container Temps Taken?** ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 0.9, 6.0 °C **Average Corrected Temp (no temp blank only):** ☐See Exceptions

**Correction Factor:** True **Cooler Temp Corrected w/temp blank:** 0.9, 6.0 °C _____ °C ☐1 Container

**USDA Regulated Soil:** ( ☒ N/A, water sample/Other:_____ ) **Date/Initials of Person Examining Contents:** Clif 2/26/2020

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☒Yes | ☐No | | 1. |
| Chain of Custody Relinquished? | ☒Yes | ☐No | | 2. |
| Sampler Name and/or Signature on COC? | ☒Yes | ☐No | ☐N/A | 3. |
| Samples Arrived within Hold Time? | ☒Yes | ☐No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☐Yes | ☒No | | 5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____ |
| **Rush Turn Around Time Requested?** | ☐Yes | ☒No | | 6. |
| Sufficient Volume? | ☒Yes | ☐No | | 7. |
| Correct Containers Used? -Pace Containers Used? | ☒Yes ☒Yes | ☐No ☐No | | 8. |
| Containers Intact? | ☒Yes | ☐No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐Yes | ☐No | ☒N/A | 10. Is sediment visible in the dissolved container? ☐Yes ☐No |
| Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☐Soil ☐Oil ☐Other_____ | ☒Yes | ☐No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| All containers needing acid/base preservation have been checked? | ☐Yes | ☐No | ☒N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☐Yes | ☐No | ☒N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☒Yes | ☐No | ☐N/A | Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☐Yes | ☐No | ☒N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐Yes | ☐No | ☒N/A | |
| Trip Blank Present? | ☐Yes | ☐No | ☒N/A | 14. |
| Trip Blank Custody Seals Present? | ☐Yes | ☐No | ☒N/A | Pace Trip Blank Lot # (if purchased):_____ |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

**Project Manager Review:** Trina Soltani **Date:** 2/28/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CW 2/26 GN

WO# : 12141447

12141447

# Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN

Cert. Needed: [X] Yes ☐

**Workorder:** 10509910 **Workorder Name:** 60618753 MPCA P1007

Owner Received Date: 2/26/2020 Results Requested By: 3/12/2020

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: H2SO4 - DG9S | | | | | | Requested Analysis: TOC by SM5310C - MS/MSD | TOC by SM5310C | | | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC3-WAT-BULK-01-022420 | PS | 2/24/2020 10:10 | 10509910001 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 2 | RC5-WAT-BULK-01-022420 | PS | 2/24/2020 13:15 | 10509910002 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 3 | RC7a-WAT-BULK-01-022420 | PS | 2/24/2020 17:20 | 10509910003 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 4 | RC14-WAT-BULK-01-022420 | PS | 2/24/2020 18:00 | 10509910004 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 5 | RC17a-WAT-BULK-01-022420 | PS | 2/24/2020 15:30 | 10509910005 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 6 | RC17a-WAT-BULK-02-022420 | PS | 2/24/2020 15:35 | 10509910006 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 7 | RC17a-WAT-BULK-03-022420 | RQS | 2/24/2020 15:40 | 10509910007 | Water | 6 | | | | | | X | | | | | | | | | | | | MS/MSD |
| 8 | RC18-WAT-BULK-01-022520 | PS | 2/25/2020 10:45 | 10509910008 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 9 | RC21-WAT-BULK-01-022420 | PS | 2/24/2020 17:15 | 10509910009 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 10 | WL18-WAT-BULK-01-022620 | PS | 2/26/2020 16:15 | 10509910010 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 11 | WL15-WAT-BULK-01-022620 | PS | 2/26/2020 14:00 | 10509910011 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 12 | WL12-WAT-BULK-01-022620 | PS | 2/26/2020 13:50 | 10509910012 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 13 | EP8-WAT-BULK-01-022520 | PS | 2/25/2020 17:30 | 10509910013 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 14 | EP10-WAT-BULK-01-022520 | PS | 2/25/2020 10:50 | 10509910014 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 15 | EP10-WAT-BULK-02-022520 | PS | 2/25/2020 10:55 | 10509910015 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 16 | EP16-WAT-BULK-01-022520 | PS | 2/25/2020 11:10 | 10509910016 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 17 | EP19-WAT-BULK-01-022520 | PS | 2/25/2020 12:45 | 10509910017 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 18 | EP20-WAT-BULK-01-022520 | PS | 2/25/2020 18:00 | 10509910018 | Water | 3 | | | | | | | X | | | | | | | | | | | |
| 19 | WL6-WAT-BULK-01-022520 | PS | 2/25/2020 16:10 | 10509910019 | Water | 3 | | | | | | | X | | | | | | | | | | | |

# Chain of Custody

Pace Analytical
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN
Cert. Needed: ☒ Yes ☐ No

**Workorder:** 10509910 **Workorder Name:** 60618753 MPCA P1007

**Owner Received Date:** 2/26/2020 **Results Requested By:** 3/12/2020

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: H2SO4 - DG9S | | | | | | Requested Analysis: TOC by SM5310C - MS/MSD | TOC by SM5310C | | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | WL7-WAT-BULK-01-022520 | PS | 2/25/2020 17:00 | 10509910020 | Water | 3 | | | | | | | X | | | | | | | | | | |
| 21 | WL9-WAT-BULK-01-022520 | PS | 2/25/2020 15:25 | 10509910021 | Water | 3 | | | | | | | X | | | | | | | | | | |
| 22 | WL9-WAT-BULK-02-022520 | PS | 2/25/2020 15:30 | 10509910022 | Water | 3 | | | | | | | X | | | | | | | | | | |
| 23 | WL9-WAT-BULK-03-022520 | RQS | 2/25/2020 15:35 | 10509910023 | Water | 6 | | | | | | X | | | | | | | | | | | MS/MSD |
| 24 | VB2-WAT-BULK-01-022620 | PS | 2/26/2020 15:50 | 10509910024 | Water | 3 | | | | | | | X | | | | | | | | | | |

**Comments**

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | [signature] | 2/28/20 1620 | [signature] 2/28/20 | 1545 |
| 2 | [signature] 2/28/20 | 2245 | B. Mathews | 3/2/20 0700 |
| 3 | | | | |

**Cooler Temperature on Receipt** 2.6 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
*This chain of custody is considered complete as is since this information is available in the owner laboratory.*

| Pace Analytical | Document Name: Sample Condition Upon Receipt Form | Document Revised: 25Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: F-VM-C-001-rev.14 | Issuing Authority: Pace Virginia Minnesota Quality Office |

**Sample Condition Upon Receipt**

Client Name: Pace MN

Project #: WO#: 12141447

PM: CLJ Due Date: 03/12/20

CLIENT: PACE MPLS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 140792808 Type of Ice: ☐ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read °C: 2.3 Cooler Temp Corrected °C: 2.6 Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6 °C Correction Factor: 0.3 Date and Initials of Person Examining Contents: 2/28/20 DL BM 3/2/20

| | | | | Comments: |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Chain of Custody Filled Out? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Sampler Name and Signature on COC? | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours |
| Short Hold Time Analysis (<72 hr)? | ☐ Yes | ☑ No | ☐ N/A | 6. |
| Rush Turn Around Time Requested? | ☐ Yes | ☑ No | ☐ N/A | 7. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 8. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved containers. |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT | ☑ Yes | ☐ No | ☐ N/A | 12. |
| All containers needing acid/base preservation properly preserved? | ☑ Yes | ☐ No | ☐ N/A | 13. Note samples needing adjustment: |
| Headspace in Methyl Mercury Container | ☐ Yes | ☐ No | ☑ N/A | 14. |
| Headspace in VOA Vials ( >6mm)? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if purchased): | | | | |

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: Nikki Jarvis Date: 03/02/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 28, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60618753 MPCA P1007
Pace Project No.: 10516160

Dear Andrew Tarara:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Virginia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## CERTIFICATIONS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Pace Analytical Services Virginia Minnesota**
315 Chestnut Street, Virginia, MN 55792
Montana Certificate #CERT0103
Alaska Certification UST-107
Minnesota Dept of Health Certification #: 027-137-445
North Dakota Certification: # R-203
Wisconsin DNR Certification # : 998027470
WA Department of Ecology Lab ID# C1007

## REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

# SAMPLE SUMMARY

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| 10516160001 | RC17-SED-BANK-EAST-0-3-01-0423 | Solid | 04/23/20 11:10 | 04/28/20 15:02 |
| 10516160002 | RC17-SED-BANK-EAST-3-6-01-0423 | Solid | 04/23/20 11:30 | 04/28/20 15:02 |
| 10516160003 | RC17-SED-BANK-WEST-0-3-01-0423 | Solid | 04/23/20 12:00 | 04/28/20 15:02 |
| 10516160004 | RC17-SED-BANK-WEST-3-6-01-0423 | Solid | 04/23/20 12:15 | 04/28/20 15:02 |
| 10516160005 | RC18-SED-COMP-0-3-01-042320 | Solid | 04/23/20 14:00 | 04/28/20 15:02 |
| 10516160006 | RC21-SED-COMP-0-3-01-042320 | Solid | 04/23/20 09:50 | 04/28/20 15:02 |
| 10516160007 | EP21-SED-FOAM-0-6-01-042320 | Solid | 04/23/20 12:40 | 04/28/20 15:02 |
| 10516160008 | FC1-SED-0-3-01-042320 | Solid | 04/23/20 14:45 | 04/28/20 15:02 |
| 10516160009 | RC12-SED-12-18-01-042420 | Solid | 04/24/20 14:00 | 04/28/20 15:02 |
| 10516160010 | RC12-SED-30-36-01-042420 | Solid | 04/24/20 14:30 | 04/28/20 15:02 |
| 10516160011 | RC5-SED-0-4-01-042420 | Solid | 04/24/20 10:00 | 04/28/20 15:02 |
| 10516160012 | RC5-SED-4-6-01-042420 | Solid | 04/24/20 10:15 | 04/28/20 15:02 |
| 10516160013 | RC5-SED-22-26-01-042420 | Solid | 04/24/20 10:30 | 04/28/20 15:02 |
| 10516160014 | RC5-SED-WET-3-12-01-042420 | Solid | 04/24/20 10:45 | 04/28/20 15:02 |
| 10516160015 | RC5-SED-WET-12-18-01-042420 | Solid | 04/24/20 11:00 | 04/28/20 15:02 |
| 10516160016 | RC6-SED-WET-0-6-01-042420 | Solid | 04/24/20 11:20 | 04/28/20 15:02 |
| 10516160017 | RC6-SED-WET-12-18-01-042420 | Solid | 04/24/20 11:40 | 04/28/20 15:02 |
| 10516160018 | RC3-SED-WET-0-6-01-042520 | Solid | 04/25/20 09:00 | 04/28/20 15:02 |
| 10516160019 | RC3-SED-WET-12-18-01-042520 | Solid | 04/25/20 09:15 | 04/28/20 15:02 |
| 10516160020 | RC3A-SED-WET-0-6-01-042520 | Solid | 04/25/20 09:30 | 04/28/20 15:02 |
| 10516160021 | RC12-SED-0-6-01-042520 | Solid | 04/25/20 10:15 | 04/28/20 15:02 |
| 10516160022 | EP21-SED-0-6-01-042520 | Solid | 04/25/20 10:30 | 04/28/20 15:02 |
| 10516160023 | EP17-SED-WET-0-6-01-042520 | Solid | 04/25/20 12:15 | 04/28/20 15:02 |
| 10516160024 | EP17-SED-WET-6-12-01-042520 | Solid | 04/25/20 12:30 | 04/28/20 15:02 |
| 10516160025 | EP17-SED-0-6-01-042520 | Solid | 04/25/20 12:45 | 04/28/20 15:02 |
| 10516160026 | EP19-SED-WET-0-6-01-042520 | Solid | 04/25/20 13:15 | 04/28/20 15:02 |
| 10516160027 | EP19-SED-WET-6-12-01-042520 | Solid | 04/25/20 13:30 | 04/28/20 15:02 |
| 10516160028 | EP19-SED-24-30-01-042520 | Solid | 04/25/20 13:45 | 04/28/20 15:02 |
| 10516160029 | EP19-SED-36-42-01-042520 | Solid | 04/25/20 14:00 | 04/28/20 15:02 |

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| 10516160001 | RC17-SED-BANK-EAST-0-3-01-0423 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160002 | RC17-SED-BANK-EAST-3-6-01-0423 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160003 | RC17-SED-BANK-WEST-0-3-01-0423 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160004 | RC17-SED-BANK-WEST-3-6-01-0423 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160005 | RC18-SED-COMP-0-3-01-042320 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160006 | RC21-SED-COMP-0-3-01-042320 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160007 | EP21-SED-FOAM-0-6-01-042320 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160008 | FC1-SED-0-3-01-042320 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160009 | RC12-SED-12-18-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160010 | RC12-SED-30-36-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160011 | RC5-SED-0-4-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160012 | RC5-SED-4-6-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160013 | RC5-SED-22-26-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160014 | RC5-SED-WET-3-12-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160015 | RC5-SED-WET-12-18-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160016 | RC6-SED-WET-0-6-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160017 | RC6-SED-WET-12-18-01-042420 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160018 | RC3-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160019 | RC3-SED-WET-12-18-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160020 | RC3A-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160021 | RC12-SED-0-6-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516160022 | EP21-SED-0-6-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516160023 | EP17-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516160024 | EP17-SED-WET-6-12-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516160025 | EP17-SED-0-6-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516160026 | EP19-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516160027 | EP19-SED-WET-6-12-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516160028 | EP19-SED-24-30-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516160029 | EP19-SED-36-42-01-042520 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |

PASI-V = Pace Analytical Services - Virginia



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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10516160001** | **RC17-SED-BANK-EAST-0-3-01-0423** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 36.7 | % | 0.10 | 05/15/20 16:35 | |
| EPA 365.1 | Phosphorus | 204 | mg/kg | 3.9 | 05/06/20 13:37 | M1, R1 |
| EPA 9056A | Bromide | 2.2 | mg/kg | 2.0 | 05/18/20 14:25 | |
| EPA 9056A | Chloride | 56.7 | mg/kg | 11.8 | 05/18/20 14:25 | |
| EPA 9056A | Sulfate | 127 | mg/kg | 19.7 | 05/18/20 14:25 | |
| EPA 9060A | RPD% | 14.3 | % | | 05/13/20 09:28 | |
| EPA 9060A | Total Organic Carbon | 17700 | mg/kg | 11500 | 05/13/20 09:19 | |
| EPA 9060A | Total Organic Carbon | 20400 | mg/kg | 11500 | 05/13/20 09:28 | |
| EPA 9060A | Mean Total Organic Carbon | 19100 | mg/kg | 11500 | 05/13/20 09:28 | |
| **10516160002** | **RC17-SED-BANK-EAST-3-6-01-0423** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 28.2 | % | 0.10 | 05/15/20 16:47 | |
| EPA 9060A | RPD% | 13.9 | % | | 05/11/20 14:24 | |
| EPA 9060A | Total Organic Carbon | 18100 | mg/kg | 11800 | 05/11/20 14:15 | |
| EPA 9060A | Total Organic Carbon | 20800 | mg/kg | 11700 | 05/11/20 14:24 | |
| EPA 9060A | Mean Total Organic Carbon | 19500 | mg/kg | 11800 | 05/11/20 14:24 | |
| **10516160003** | **RC17-SED-BANK-WEST-0-3-01-0423** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 30.6 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 5.4 | % | | 05/11/20 14:42 | |
| EPA 9060A | Total Organic Carbon | 17900 | mg/kg | 12000 | 05/11/20 14:35 | |
| EPA 9060A | Total Organic Carbon | 17000 | mg/kg | 11900 | 05/11/20 14:42 | |
| EPA 9060A | Mean Total Organic Carbon | 17500 | mg/kg | 11900 | 05/11/20 14:42 | |
| **10516160004** | **RC17-SED-BANK-WEST-3-6-01-0423** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 27.8 | % | 0.10 | 05/15/20 16:48 | |
| EPA 9060A | RPD% | 19.8 | % | | 05/11/20 15:09 | |
| EPA 9060A | Total Organic Carbon | 13900 | mg/kg | 3000 | 05/11/20 15:00 | |
| EPA 9060A | Total Organic Carbon | 13400 | mg/kg | 2990 | 05/11/20 15:09 | |
| EPA 9060A | Mean Total Organic Carbon | 12900 | mg/kg | 5990 | 05/11/20 15:09 | |
| **10516160005** | **RC18-SED-COMP-0-3-01-042320** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 36.5 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 19.7 | % | | 05/11/20 15:27 | |
| EPA 9060A | Total Organic Carbon | 35600 | mg/kg | 11900 | 05/11/20 15:17 | |
| EPA 9060A | Total Organic Carbon | 29200 | mg/kg | 11900 | 05/11/20 15:27 | |
| EPA 9060A | Mean Total Organic Carbon | 32400 | mg/kg | 11900 | 05/11/20 15:27 | |
| **10516160006** | **RC21-SED-COMP-0-3-01-042320** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 14.8 | % | 0.10 | 05/15/20 16:47 | |
| EPA 9060A | RPD% | 1.5 | % | | 05/11/20 11:14 | |
| EPA 9060A | Total Organic Carbon | 4880 | mg/kg | 1200 | 05/11/20 11:04 | |
| EPA 9060A | Total Organic Carbon | 4930 | mg/kg | 1190 | 05/11/20 11:14 | |
| EPA 9060A | Mean Total Organic Carbon | 4920 | mg/kg | 1200 | 05/11/20 11:14 | |
| **10516160007** | **EP21-SED-FOAM-0-6-01-042320** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 18.1 | % | 0.10 | 05/15/20 16:34 | |

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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10516160007** | **EP21-SED-FOAM-0-6-01-042320** | | | | | |
| EPA 365.1 | Phosphorus | 209 | mg/kg | 3.0 | 05/06/20 13:44 | |
| EPA 9056A | Chloride | 35.9 | mg/kg | 11.5 | 05/18/20 16:52 | |
| EPA 9056A | Sulfate | 104 | mg/kg | 19.2 | 05/18/20 16:52 | |
| EPA 9060A | RPD% | 8.6 | % | | 05/13/20 10:22 | |
| EPA 9060A | Total Organic Carbon | 2570 | mg/kg | 1980 | 05/13/20 10:15 | |
| EPA 9060A | Total Organic Carbon | 2800 | mg/kg | 1970 | 05/13/20 10:22 | |
| EPA 9060A | Mean Total Organic Carbon | 2690 | mg/kg | 1980 | 05/13/20 10:22 | |
| **10516160008** | **FC1-SED-0-3-01-042320** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 37.5 | % | 0.10 | 05/15/20 16:47 | |
| EPA 9060A | RPD% | 23.6 | % | | 05/12/20 09:43 | |
| EPA 9060A | Total Organic Carbon | 32100 | mg/kg | 12000 | 05/12/20 09:34 | |
| EPA 9060A | Total Organic Carbon | 25300 | mg/kg | 12000 | 05/12/20 09:43 | |
| EPA 9060A | Mean Total Organic Carbon | 28700 | mg/kg | 12000 | 05/12/20 09:43 | |
| **10516160009** | **RC12-SED-12-18-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 18.3 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 11.6 | % | | 05/11/20 14:07 | |
| EPA 9060A | Total Organic Carbon | 1780 | mg/kg | 1180 | 05/11/20 14:00 | |
| EPA 9060A | Total Organic Carbon | 2000 | mg/kg | 1180 | 05/11/20 14:07 | |
| EPA 9060A | Mean Total Organic Carbon | 1890 | mg/kg | 1180 | 05/11/20 14:07 | |
| **10516160010** | **RC12-SED-30-36-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 19.3 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 6.8 | % | | 05/12/20 10:07 | |
| EPA 9060A | Total Organic Carbon | 1460 | mg/kg | 1160 | 05/12/20 10:00 | |
| EPA 9060A | Total Organic Carbon | 1360 | mg/kg | 1160 | 05/12/20 10:07 | |
| EPA 9060A | Mean Total Organic Carbon | 1410 | mg/kg | 1160 | 05/12/20 10:07 | |
| **10516160011** | **RC5-SED-0-4-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 47.3 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 15.4 | % | | 05/12/20 10:33 | |
| EPA 9060A | Total Organic Carbon | 29800 | mg/kg | 5980 | 05/12/20 10:26 | |
| EPA 9060A | Total Organic Carbon | 25500 | mg/kg | 5960 | 05/12/20 10:33 | |
| EPA 9060A | Mean Total Organic Carbon | 27700 | mg/kg | 5970 | 05/12/20 10:33 | |
| **10516160012** | **RC5-SED-4-6-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 22.7 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 1.6 | % | | 05/12/20 10:49 | |
| EPA 9060A | Total Organic Carbon | 18300 | mg/kg | 11600 | 05/12/20 10:40 | |
| EPA 9060A | Total Organic Carbon | 18000 | mg/kg | 11400 | 05/12/20 10:49 | |
| EPA 9060A | Mean Total Organic Carbon | 18200 | mg/kg | 11500 | 05/12/20 10:49 | |
| **10516160013** | **RC5-SED-22-26-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 12.7 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 41.7 | % | | 05/12/20 11:13 | R2 |
| EPA 9060A | Total Organic Carbon | 6180 | mg/kg | 3970 | 05/12/20 11:05 | |
| EPA 9060A | Total Organic Carbon | 4050 | mg/kg | 3970 | 05/12/20 11:13 | |
| EPA 9060A | Mean Total Organic Carbon | 5120 | mg/kg | 3970 | 05/12/20 11:13 | |

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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10516160014** | **RC5-SED-WET-3-12-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 51.7 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 3.2 | % | | 05/11/20 13:43 | |
| EPA 9060A | Total Organic Carbon | 63300 | mg/kg | 4010 | 05/11/20 13:36 | |
| EPA 9060A | Total Organic Carbon | 65400 | mg/kg | 3980 | 05/11/20 13:43 | |
| EPA 9060A | Mean Total Organic Carbon | 64400 | mg/kg | 3990 | 05/11/20 13:43 | |
| **10516160015** | **RC5-SED-WET-12-18-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 20.3 | % | 0.10 | 05/15/20 16:50 | |
| EPA 9060A | RPD% | 8.0 | % | | 05/12/20 11:54 | |
| EPA 9060A | Total Organic Carbon | 6270 | mg/kg | 3960 | 05/12/20 11:47 | |
| EPA 9060A | Total Organic Carbon | 5790 | mg/kg | 3950 | 05/12/20 11:54 | |
| EPA 9060A | Mean Total Organic Carbon | 6030 | mg/kg | 3950 | 05/12/20 11:54 | |
| **10516160016** | **RC6-SED-WET-0-6-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 71.6 | % | 0.10 | 05/15/20 16:50 | |
| EPA 9060A | RPD% | 136 | % | | 05/12/20 12:12 | R2 |
| EPA 9060A | Total Organic Carbon | 20400 | mg/kg | 6010 | 05/12/20 12:02 | |
| EPA 9060A | Total Organic Carbon | 106000 | mg/kg | 6020 | 05/12/20 12:12 | |
| EPA 9060A | Mean Total Organic Carbon | 64600 | mg/kg | 6120 | 05/12/20 12:12 | |
| **10516160017** | **RC6-SED-WET-12-18-01-042420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 38.5 | % | 0.10 | 05/15/20 16:50 | |
| EPA 9060A | RPD% | 29.3 | % | | 05/12/20 09:01 | |
| EPA 9060A | Total Organic Carbon | 18200 | mg/kg | 11600 | 05/12/20 08:50 | |
| EPA 9060A | Total Organic Carbon | 24500 | mg/kg | 11600 | 05/12/20 09:01 | |
| EPA 9060A | Mean Total Organic Carbon | 21400 | mg/kg | 11600 | 05/12/20 09:01 | |
| **10516160018** | **RC3-SED-WET-0-6-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 58.6 | % | 0.10 | 05/15/20 16:36 | |
| EPA 365.1 | Phosphorus | 476 | mg/kg | 6.0 | 05/06/20 13:45 | |
| EPA 9056A | Chloride | 200 | mg/kg | 12.2 | 05/18/20 13:43 | |
| EPA 9056A | Sulfate | 495 | mg/kg | 20.4 | 05/18/20 13:43 | |
| EPA 9060A | RPD% | 4.1 | % | | 05/13/20 10:40 | |
| EPA 9060A | Total Organic Carbon | 41700 | mg/kg | 11800 | 05/13/20 10:33 | |
| EPA 9060A | Total Organic Carbon | 43400 | mg/kg | 11600 | 05/13/20 10:40 | |
| EPA 9060A | Mean Total Organic Carbon | 42600 | mg/kg | 11700 | 05/13/20 10:40 | |
| **10516160019** | **RC3-SED-WET-12-18-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 35.6 | % | 0.10 | 05/15/20 16:49 | |
| EPA 9060A | RPD% | 4.2 | % | | 05/11/20 12:02 | |
| EPA 9060A | Total Organic Carbon | 29900 | mg/kg | 11700 | 05/11/20 11:51 | |
| EPA 9060A | Total Organic Carbon | 31200 | mg/kg | 11700 | 05/11/20 12:02 | |
| EPA 9060A | Mean Total Organic Carbon | 30600 | mg/kg | 11700 | 05/11/20 12:02 | |
| **10516160020** | **RC3A-SED-WET-0-6-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 49.8 | % | 0.10 | 05/15/20 16:50 | |
| EPA 9060A | RPD% | 14.1 | % | | 05/12/20 11:30 | |
| EPA 9060A | Total Organic Carbon | 72300 | mg/kg | 12000 | 05/12/20 11:20 | |
| EPA 9060A | Total Organic Carbon | 83200 | mg/kg | 11800 | 05/12/20 11:30 | |
| EPA 9060A | Mean Total Organic Carbon | 77700 | mg/kg | 11900 | 05/12/20 11:30 | |

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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10516160021** | **RC12-SED-0-6-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 4.0 | % | 0.10 | 05/15/20 16:34 | |
| EPA 365.1 | Phosphorus | 119 | mg/kg | 2.6 | 05/06/20 13:46 | |
| EPA 9056A | Chloride | 32.9 | mg/kg | 12.1 | 05/18/20 16:31 | |
| EPA 9056A | Nitrate as N | 5.1 | mg/kg | 2.0 | 05/18/20 16:31 | |
| EPA 9060A | RPD% | 19.5 | % | | 05/13/20 11:04 | |
| EPA 9060A | Total Organic Carbon | 6990 | mg/kg | 3890 | 05/13/20 10:57 | |
| EPA 9060A | Total Organic Carbon | 5750 | mg/kg | 3880 | 05/13/20 11:04 | |
| EPA 9060A | Mean Total Organic Carbon | 6370 | mg/kg | 3890 | 05/13/20 11:04 | |
| **10516160022** | **EP21-SED-0-6-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 14.7 | % | 0.10 | 05/15/20 16:24 | D6 |
| EPA 9060A | RPD% | 7.0 | % | | 05/14/20 09:59 | |
| EPA 9060A | Total Organic Carbon | 3270 | mg/kg | 1200 | 05/14/20 09:52 | |
| EPA 9060A | Total Organic Carbon | 3510 | mg/kg | 1200 | 05/14/20 09:59 | |
| EPA 9060A | Mean Total Organic Carbon | 3390 | mg/kg | 1200 | 05/14/20 09:59 | |
| **10516160023** | **EP17-SED-WET-0-6-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 68.8 | % | 0.10 | 05/15/20 16:26 | |
| EPA 9060A | RPD% | 54.0 | % | | 05/14/20 14:09 | R2 |
| EPA 9060A | Total Organic Carbon | 15000 | mg/kg | 9800 | 05/14/20 14:02 | |
| EPA 9060A | Total Organic Carbon | 26100 | mg/kg | 9790 | 05/14/20 14:09 | |
| EPA 9060A | Mean Total Organic Carbon | 20600 | mg/kg | 9800 | 05/14/20 14:09 | |
| **10516160024** | **EP17-SED-WET-6-12-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 42.3 | % | 0.10 | 05/15/20 16:28 | |
| EPA 9060A | RPD% | 2.6 | % | | 05/14/20 10:47 | |
| EPA 9060A | Total Organic Carbon | 50600 | mg/kg | 12000 | 05/14/20 10:36 | |
| EPA 9060A | Total Organic Carbon | 49300 | mg/kg | 12000 | 05/14/20 10:47 | |
| EPA 9060A | Mean Total Organic Carbon | 50000 | mg/kg | 12000 | 05/14/20 10:47 | |
| **10516160025** | **EP17-SED-0-6-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 47.7 | % | 0.10 | 05/18/20 14:35 | |
| EPA 365.1 | Phosphorus | 317 | mg/kg | 4.7 | 05/06/20 13:47 | |
| EPA 9056A | Chloride | 145 | mg/kg | 11.4 | 05/18/20 17:34 | |
| EPA 9056A | Sulfate | 216 | mg/kg | 19.0 | 05/18/20 17:34 | |
| EPA 9060A | RPD% | 82.7 | % | | 05/15/20 13:21 | R2 |
| EPA 9060A | Total Organic Carbon | 46700 | mg/kg | 11800 | 05/15/20 13:14 | |
| EPA 9060A | Total Organic Carbon | 19400 | mg/kg | 11800 | 05/15/20 13:21 | |
| EPA 9060A | Mean Total Organic Carbon | 33000 | mg/kg | 11800 | 05/15/20 13:21 | |
| **10516160026** | **EP19-SED-WET-0-6-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 19.7 | % | 0.10 | 05/15/20 16:28 | |
| EPA 9060A | RPD% | 10.4 | % | | 05/14/20 11:11 | |
| EPA 9060A | Total Organic Carbon | 10200 | mg/kg | 3030 | 05/14/20 11:04 | |
| EPA 9060A | Total Organic Carbon | 9230 | mg/kg | 3020 | 05/14/20 11:11 | |
| EPA 9060A | Mean Total Organic Carbon | 9730 | mg/kg | 3020 | 05/14/20 11:11 | |
| **10516160027** | **EP19-SED-WET-6-12-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 23.1 | % | 0.10 | 05/15/20 16:30 | |
| EPA 9060A | RPD% | 7.8 | % | | 05/14/20 11:35 | |

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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10516160027** | **EP19-SED-WET-6-12-01-042520** | | | | | |
| EPA 9060A | Total Organic Carbon | 6930 | mg/kg | 5680 | 05/14/20 11:27 | |
| EPA 9060A | Total Organic Carbon | 6410 | mg/kg | 5620 | 05/14/20 11:35 | |
| EPA 9060A | Mean Total Organic Carbon | 6670 | mg/kg | 5650 | 05/14/20 11:35 | |
| **10516160028** | **EP19-SED-24-30-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 25.8 | % | 0.10 | 05/15/20 16:29 | |
| EPA 9060A | RPD% | 15.6 | % | | 05/14/20 12:28 | |
| EPA 9060A | Total Organic Carbon | 10500 | mg/kg | 5950 | 05/14/20 12:21 | |
| EPA 9060A | Total Organic Carbon | 8950 | mg/kg | 5940 | 05/14/20 12:28 | |
| EPA 9060A | Mean Total Organic Carbon | 9710 | mg/kg | 5950 | 05/14/20 12:28 | |
| **10516160029** | **EP19-SED-36-42-01-042520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 19.3 | % | 0.10 | 05/15/20 16:31 | |
| EPA 9060A | RPD% | 23.1 | % | | 05/14/20 13:08 | |
| EPA 9060A | Total Organic Carbon | 5060 | mg/kg | 2390 | 05/14/20 13:01 | |
| EPA 9060A | Total Organic Carbon | 4010 | mg/kg | 2370 | 05/14/20 13:08 | |
| EPA 9060A | Mean Total Organic Carbon | 4540 | mg/kg | 2380 | 05/14/20 13:08 | |



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Method:** **EPA 365.1**
**Description:** 365.1 Phosphorus, Total
**Client:** AECOM MN ND
**Date:** May 28, 2020

**General Information:**
5 samples were analyzed for EPA 365.1 by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM 4500P B with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 188405

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10516160001,10516320012

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 741594)
  - Phosphorus
- MS (Lab ID: 741596)
  - Phosphorus

R1: RPD value was outside control limits.

- MSD (Lab ID: 741595)
  - Phosphorus

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Method:** **EPA 9056A**
**Description:** 9056 IC Anions
**Client:** AECOM MN ND
**Date:** May 28, 2020

**General Information:**
5 samples were analyzed for EPA 9056A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 300.0 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 189264

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10516320004,10516320011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 744873)
  - Fluoride
- MSD (Lab ID: 744874)
  - Fluoride

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Method:** **EPA 9060A**
**Description:** Total Organic Carbon
**Client:** AECOM MN ND
**Date:** May 28, 2020

**General Information:**
29 samples were analyzed for EPA 9060A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC17-SED-BANK-EAST-0-3-01-0423** **Lab ID: 10516160001** Collected: 04/23/20 11:10 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **36.7** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:35 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **204** | mg/kg | 3.9 | 1.4 | 1 | 05/05/20 13:00 | 05/06/20 13:37 | 7723-14-0 | M1,R1 |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | **2.2** | mg/kg | 2.0 | 0.56 | 1 | 05/18/20 09:57 | 05/18/20 14:25 | 24959-67-9 | |
| Chloride | **56.7** | mg/kg | 11.8 | 4.9 | 1 | 05/18/20 09:57 | 05/18/20 14:25 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.65 | 1 | 05/18/20 09:57 | 05/18/20 14:25 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 2.0 | 0.74 | 1 | 05/18/20 09:57 | 05/18/20 14:25 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.33 | 1 | 05/18/20 09:57 | 05/18/20 14:25 | 14797-65-0 | |
| Sulfate | **127** | mg/kg | 19.7 | 4.4 | 1 | 05/18/20 09:57 | 05/18/20 14:25 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **14.3** | % | | | 1 | | 05/13/20 09:28 | | |
| Total Organic Carbon | **17700** | mg/kg | 11500 | 2840 | 1 | | 05/13/20 09:19 | 7440-44-0 | |
| Total Organic Carbon | **20400** | mg/kg | 11500 | 2830 | 1 | | 05/13/20 09:28 | 7440-44-0 | |
| Mean Total Organic Carbon | **19100** | mg/kg | 11500 | 2830 | 1 | | 05/13/20 09:28 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC17-SED-BANK-EAST-3-6-01-0423** **Lab ID: 10516160002** Collected: 04/23/20 11:30 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **28.2** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:47 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **13.9** | % | | | 1 | | 05/11/20 14:24 | | |
| Total Organic Carbon | **18100** | mg/kg | 11800 | 2900 | 1 | | 05/11/20 14:15 | 7440-44-0 | |
| Total Organic Carbon | **20800** | mg/kg | 11700 | 2900 | 1 | | 05/11/20 14:24 | 7440-44-0 | |
| Mean Total Organic Carbon | **19500** | mg/kg | 11800 | 2900 | 1 | | 05/11/20 14:24 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC17-SED-BANK-WEST-0-3-01-0423** **Lab ID: 10516160003** Collected: 04/23/20 12:00 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **30.6** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **5.4** | % | | | 1 | | 05/11/20 14:42 | | |
| Total Organic Carbon | **17900** | mg/kg | 12000 | 2960 | 1 | | 05/11/20 14:35 | 7440-44-0 | |
| Total Organic Carbon | **17000** | mg/kg | 11900 | 2930 | 1 | | 05/11/20 14:42 | 7440-44-0 | |
| Mean Total Organic Carbon | **17500** | mg/kg | 11900 | 2950 | 1 | | 05/11/20 14:42 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC17-SED-BANK-WEST-3-6-01-0423** **Lab ID: 10516160004** Collected: 04/23/20 12:15 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **27.8** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:48 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **19.8** | % | | | 1 | | 05/11/20 15:09 | | |
| Total Organic Carbon | **13900** | mg/kg | 3000 | 740 | 1 | | 05/11/20 15:00 | 7440-44-0 | |
| Total Organic Carbon | **13400** | mg/kg | 2990 | 737 | 1 | | 05/11/20 15:09 | 7440-44-0 | |
| Mean Total Organic Carbon | **12900** | mg/kg | 5990 | 1480 | 1 | | 05/11/20 15:09 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC18-SED-COMP-0-3-01-042320** **Lab ID: 10516160005** Collected: 04/23/20 14:00 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **36.5** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **19.7** | % | | | 1 | | 05/11/20 15:27 | | |
| Total Organic Carbon | **35600** | mg/kg | 11900 | 2930 | 1 | | 05/11/20 15:17 | 7440-44-0 | |
| Total Organic Carbon | **29200** | mg/kg | 11900 | 2930 | 1 | | 05/11/20 15:27 | 7440-44-0 | |
| Mean Total Organic Carbon | **32400** | mg/kg | 11900 | 2930 | 1 | | 05/11/20 15:27 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC21-SED-COMP-0-3-01-042320** **Lab ID: 10516160006** Collected: 04/23/20 09:50 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **14.8** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:47 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **1.5** | % | | | 1 | | 05/11/20 11:14 | | |
| Total Organic Carbon | **4880** | mg/kg | 1200 | 296 | 1 | | 05/11/20 11:04 | 7440-44-0 | |
| Total Organic Carbon | **4930** | mg/kg | 1190 | 294 | 1 | | 05/11/20 11:14 | 7440-44-0 | |
| Mean Total Organic Carbon | **4920** | mg/kg | 1200 | 296 | 1 | | 05/11/20 11:14 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP21-SED-FOAM-0-6-01-042320** **Lab ID: 10516160007** Collected: 04/23/20 12:40 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **18.1** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:34 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **209** | mg/kg | 3.0 | 1.1 | 1 | 05/05/20 13:00 | 05/06/20 13:44 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 1.9 | 0.54 | 1 | 05/18/20 09:57 | 05/18/20 16:52 | 24959-67-9 | |
| Chloride | **35.9** | mg/kg | 11.5 | 4.8 | 1 | 05/18/20 09:57 | 05/18/20 16:52 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.4 | 0.63 | 1 | 05/18/20 09:57 | 05/18/20 16:52 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 1.9 | 0.72 | 1 | 05/18/20 09:57 | 05/18/20 16:52 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 1.9 | 0.32 | 1 | 05/18/20 09:57 | 05/18/20 16:52 | 14797-65-0 | |
| Sulfate | **104** | mg/kg | 19.2 | 4.3 | 1 | 05/18/20 09:57 | 05/18/20 16:52 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **8.6** | % | | | 1 | | 05/13/20 10:22 | | |
| Total Organic Carbon | **2570** | mg/kg | 1980 | 488 | 1 | | 05/13/20 10:15 | 7440-44-0 | |
| Total Organic Carbon | **2800** | mg/kg | 1970 | 487 | 1 | | 05/13/20 10:22 | 7440-44-0 | |
| Mean Total Organic Carbon | **2690** | mg/kg | 1980 | 488 | 1 | | 05/13/20 10:22 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: FC1-SED-0-3-01-042320** **Lab ID: 10516160008** Collected: 04/23/20 14:45 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **37.5** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:47 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **23.6** | % | | | 1 | | 05/12/20 09:43 | | |
| Total Organic Carbon | **32100** | mg/kg | 12000 | 2970 | 1 | | 05/12/20 09:34 | 7440-44-0 | |
| Total Organic Carbon | **25300** | mg/kg | 12000 | 2970 | 1 | | 05/12/20 09:43 | 7440-44-0 | |
| Mean Total Organic Carbon | **28700** | mg/kg | 12000 | 2970 | 1 | | 05/12/20 09:43 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC12-SED-12-18-01-042420** **Lab ID: 10516160009** Collected: 04/24/20 14:00 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **18.3** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **11.6** | % | | | 1 | | 05/11/20 14:07 | | |
| Total Organic Carbon | **1780** | mg/kg | 1180 | 292 | 1 | | 05/11/20 14:00 | 7440-44-0 | |
| Total Organic Carbon | **2000** | mg/kg | 1180 | 292 | 1 | | 05/11/20 14:07 | 7440-44-0 | |
| Mean Total Organic Carbon | **1890** | mg/kg | 1180 | 292 | 1 | | 05/11/20 14:07 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC12-SED-30-36-01-042420** **Lab ID: 10516160010** Collected: 04/24/20 14:30 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **19.3** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **6.8** | % | | | 1 | | 05/12/20 10:07 | | |
| Total Organic Carbon | **1460** | mg/kg | 1160 | 286 | 1 | | 05/12/20 10:00 | 7440-44-0 | |
| Total Organic Carbon | **1360** | mg/kg | 1160 | 286 | 1 | | 05/12/20 10:07 | 7440-44-0 | |
| Mean Total Organic Carbon | **1410** | mg/kg | 1160 | 286 | 1 | | 05/12/20 10:07 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC5-SED-0-4-01-042420** **Lab ID: 10516160011** Collected: 04/24/20 10:00 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **47.3** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **15.4** | % | | | 1 | | 05/12/20 10:33 | | |
| Total Organic Carbon | **29800** | mg/kg | 5980 | 1480 | 1 | | 05/12/20 10:26 | 7440-44-0 | |
| Total Organic Carbon | **25500** | mg/kg | 5960 | 1470 | 1 | | 05/12/20 10:33 | 7440-44-0 | |
| Mean Total Organic Carbon | **27700** | mg/kg | 5970 | 1470 | 1 | | 05/12/20 10:33 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC5-SED-4-6-01-042420** **Lab ID: 10516160012** Collected: 04/24/20 10:15 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **22.7** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **1.6** | % | | | 1 | | 05/12/20 10:49 | | |
| Total Organic Carbon | **18300** | mg/kg | 11600 | 2850 | 1 | | 05/12/20 10:40 | 7440-44-0 | |
| Total Organic Carbon | **18000** | mg/kg | 11400 | 2820 | 1 | | 05/12/20 10:49 | 7440-44-0 | |
| Mean Total Organic Carbon | **18200** | mg/kg | 11500 | 2840 | 1 | | 05/12/20 10:49 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC5-SED-22-26-01-042420** **Lab ID: 10516160013** Collected: 04/24/20 10:30 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **12.7** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **41.7** | % | | | 1 | | 05/12/20 11:13 | | R2 |
| Total Organic Carbon | **6180** | mg/kg | 3970 | 979 | 1 | | 05/12/20 11:05 | 7440-44-0 | |
| Total Organic Carbon | **4050** | mg/kg | 3970 | 978 | 1 | | 05/12/20 11:13 | 7440-44-0 | |
| Mean Total Organic Carbon | **5120** | mg/kg | 3970 | 979 | 1 | | 05/12/20 11:13 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC5-SED-WET-3-12-01-042420** **Lab ID: 10516160014** Collected: 04/24/20 10:45 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **51.7** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **3.2** | % | | | 1 | | 05/11/20 13:43 | | |
| Total Organic Carbon | **63300** | mg/kg | 4010 | 988 | 1 | | 05/11/20 13:36 | 7440-44-0 | |
| Total Organic Carbon | **65400** | mg/kg | 3980 | 981 | 1 | | 05/11/20 13:43 | 7440-44-0 | |
| Mean Total Organic Carbon | **64400** | mg/kg | 3990 | 985 | 1 | | 05/11/20 13:43 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC5-SED-WET-12-18-01-042420** **Lab ID: 10516160015** Collected: 04/24/20 11:00 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **20.3** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:50 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **8.0** | % | | | 1 | | 05/12/20 11:54 | | |
| Total Organic Carbon | **6270** | mg/kg | 3960 | 976 | 1 | | 05/12/20 11:47 | 7440-44-0 | |
| Total Organic Carbon | **5790** | mg/kg | 3950 | 974 | 1 | | 05/12/20 11:54 | 7440-44-0 | |
| Mean Total Organic Carbon | **6030** | mg/kg | 3950 | 975 | 1 | | 05/12/20 11:54 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC6-SED-WET-0-6-01-042420** **Lab ID: 10516160016** Collected: 04/24/20 11:20 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **71.6** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:50 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **136** | % | | | 1 | | 05/12/20 12:12 | | R2 |
| Total Organic Carbon | **20400** | mg/kg | 6010 | 1480 | 1 | | 05/12/20 12:02 | 7440-44-0 | |
| Total Organic Carbon | **106000** | mg/kg | 6020 | 1480 | 1 | | 05/12/20 12:12 | 7440-44-0 | |
| Mean Total Organic Carbon | **64600** | mg/kg | 6120 | 1510 | 1 | | 05/12/20 12:12 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC6-SED-WET-12-18-01-042420** **Lab ID: 10516160017** Collected: 04/24/20 11:40 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **38.5** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:50 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **29.3** | % | | | 1 | | 05/12/20 09:01 | | |
| Total Organic Carbon | **18200** | mg/kg | 11600 | 2870 | 1 | | 05/12/20 08:50 | 7440-44-0 | |
| Total Organic Carbon | **24500** | mg/kg | 11600 | 2850 | 1 | | 05/12/20 09:01 | 7440-44-0 | |
| Mean Total Organic Carbon | **21400** | mg/kg | 11600 | 2860 | 1 | | 05/12/20 09:01 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC3-SED-WET-0-6-01-042520** **Lab ID: 10516160018** Collected: 04/25/20 09:00 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **58.6** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:36 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **476** | mg/kg | 6.0 | 2.2 | 1 | 05/05/20 13:00 | 05/06/20 13:45 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.0 | 0.58 | 1 | 05/18/20 09:57 | 05/18/20 13:43 | 24959-67-9 | |
| Chloride | **200** | mg/kg | 12.2 | 5.1 | 1 | 05/18/20 09:57 | 05/18/20 13:43 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.67 | 1 | 05/18/20 09:57 | 05/18/20 13:43 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 2.0 | 0.76 | 1 | 05/18/20 09:57 | 05/18/20 13:43 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.34 | 1 | 05/18/20 09:57 | 05/18/20 13:43 | 14797-65-0 | |
| Sulfate | **495** | mg/kg | 20.4 | 4.6 | 1 | 05/18/20 09:57 | 05/18/20 13:43 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **4.1** | % | | | 1 | | 05/13/20 10:40 | | |
| Total Organic Carbon | **41700** | mg/kg | 11800 | 2910 | 1 | | 05/13/20 10:33 | 7440-44-0 | |
| Total Organic Carbon | **43400** | mg/kg | 11600 | 2870 | 1 | | 05/13/20 10:40 | 7440-44-0 | |
| Mean Total Organic Carbon | **42600** | mg/kg | 11700 | 2890 | 1 | | 05/13/20 10:40 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC3-SED-WET-12-18-01-042520** **Lab ID: 10516160019** Collected: 04/25/20 09:15 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **35.6** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:49 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **4.2** | % | | | 1 | | 05/11/20 12:02 | | |
| Total Organic Carbon | **29900** | mg/kg | 11700 | 2880 | 1 | | 05/11/20 11:51 | 7440-44-0 | |
| Total Organic Carbon | **31200** | mg/kg | 11700 | 2890 | 1 | | 05/11/20 12:02 | 7440-44-0 | |
| Mean Total Organic Carbon | **30600** | mg/kg | 11700 | 2890 | 1 | | 05/11/20 12:02 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC3A-SED-WET-0-6-01-042520** **Lab ID: 10516160020** Collected: 04/25/20 09:30 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **49.8** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:50 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **14.1** | % | | | 1 | | 05/12/20 11:30 | | |
| Total Organic Carbon | **72300** | mg/kg | 12000 | 2950 | 1 | | 05/12/20 11:20 | 7440-44-0 | |
| Total Organic Carbon | **83200** | mg/kg | 11800 | 2920 | 1 | | 05/12/20 11:30 | 7440-44-0 | |
| Mean Total Organic Carbon | **77700** | mg/kg | 11900 | 2930 | 1 | | 05/12/20 11:30 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: RC12-SED-0-6-01-042520** **Lab ID: 10516160021** Collected: 04/25/20 10:15 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **4.0** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:34 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **119** | mg/kg | 2.6 | 0.94 | 1 | 05/05/20 13:00 | 05/06/20 13:46 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.0 | 0.57 | 1 | 05/18/20 09:57 | 05/18/20 16:31 | 24959-67-9 | |
| Chloride | **32.9** | mg/kg | 12.1 | 5.1 | 1 | 05/18/20 09:57 | 05/18/20 16:31 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.66 | 1 | 05/18/20 09:57 | 05/18/20 16:31 | 16984-48-8 | |
| Nitrate as N | **5.1** | mg/kg | 2.0 | 0.76 | 1 | 05/18/20 09:57 | 05/18/20 16:31 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.34 | 1 | 05/18/20 09:57 | 05/18/20 16:31 | 14797-65-0 | |
| Sulfate | ND | mg/kg | 20.2 | 4.5 | 1 | 05/18/20 09:57 | 05/18/20 16:31 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **19.5** | % | | | 1 | | 05/13/20 11:04 | | |
| Total Organic Carbon | **6990** | mg/kg | 3890 | 960 | 1 | | 05/13/20 10:57 | 7440-44-0 | |
| Total Organic Carbon | **5750** | mg/kg | 3880 | 957 | 1 | | 05/13/20 11:04 | 7440-44-0 | |
| Mean Total Organic Carbon | **6370** | mg/kg | 3890 | 959 | 1 | | 05/13/20 11:04 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP21-SED-0-6-01-042520** **Lab ID: 10516160022** Collected: 04/25/20 10:30 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **14.7** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:24 | | D6 |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **7.0** | % | | | 1 | | 05/14/20 09:59 | | |
| Total Organic Carbon | **3270** | mg/kg | 1200 | 296 | 1 | | 05/14/20 09:52 | 7440-44-0 | |
| Total Organic Carbon | **3510** | mg/kg | 1200 | 295 | 1 | | 05/14/20 09:59 | 7440-44-0 | |
| Mean Total Organic Carbon | **3390** | mg/kg | 1200 | 296 | 1 | | 05/14/20 09:59 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP17-SED-WET-0-6-01-042520** **Lab ID: 10516160023** Collected: 04/25/20 12:15 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **68.8** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:26 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **54.0** | % | | | 1 | | 05/14/20 14:09 | | R2 |
| Total Organic Carbon | **15000** | mg/kg | 9800 | 2420 | 1 | | 05/14/20 14:02 | 7440-44-0 | |
| Total Organic Carbon | **26100** | mg/kg | 9790 | 2410 | 1 | | 05/14/20 14:09 | 7440-44-0 | |
| Mean Total Organic Carbon | **20600** | mg/kg | 9800 | 2420 | 1 | | 05/14/20 14:09 | 7440-44-0 | |



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP17-SED-WET-6-12-01-042520** **Lab ID: 10516160024** Collected: 04/25/20 12:30 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **42.3** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:28 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **2.6** | % | | | 1 | | 05/14/20 10:47 | | |
| Total Organic Carbon | **50600** | mg/kg | 12000 | 2970 | 1 | | 05/14/20 10:36 | 7440-44-0 | |
| Total Organic Carbon | **49300** | mg/kg | 12000 | 2950 | 1 | | 05/14/20 10:47 | 7440-44-0 | |
| Mean Total Organic Carbon | **50000** | mg/kg | 12000 | 2960 | 1 | | 05/14/20 10:47 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP17-SED-0-6-01-042520** **Lab ID: 10516160025** Collected: 04/25/20 12:45 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **47.7** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:35 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **317** | mg/kg | 4.7 | 1.7 | 1 | 05/05/20 13:00 | 05/06/20 13:47 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 1.9 | 0.54 | 1 | 05/18/20 09:57 | 05/18/20 17:34 | 24959-67-9 | |
| Chloride | **145** | mg/kg | 11.4 | 4.8 | 1 | 05/18/20 09:57 | 05/18/20 17:34 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.4 | 0.62 | 1 | 05/18/20 09:57 | 05/18/20 17:34 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 1.9 | 0.71 | 1 | 05/18/20 09:57 | 05/18/20 17:34 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 1.9 | 0.32 | 1 | 05/18/20 09:57 | 05/18/20 17:34 | 14797-65-0 | |
| Sulfate | **216** | mg/kg | 19.0 | 4.3 | 1 | 05/18/20 09:57 | 05/18/20 17:34 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **82.7** | % | | | 1 | | 05/15/20 13:21 | | R2 |
| Total Organic Carbon | **46700** | mg/kg | 11800 | 2900 | 1 | | 05/15/20 13:14 | 7440-44-0 | |
| Total Organic Carbon | **19400** | mg/kg | 11800 | 2910 | 1 | | 05/15/20 13:21 | 7440-44-0 | |
| Mean Total Organic Carbon | **33000** | mg/kg | 11800 | 2900 | 1 | | 05/15/20 13:21 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP19-SED-WET-0-6-01-042520** **Lab ID: 10516160026** Collected: 04/25/20 13:15 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **19.7** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:28 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **10.4** | % | | | 1 | | 05/14/20 11:11 | | |
| Total Organic Carbon | **10200** | mg/kg | 3030 | 747 | 1 | | 05/14/20 11:04 | 7440-44-0 | |
| Total Organic Carbon | **9230** | mg/kg | 3020 | 744 | 1 | | 05/14/20 11:11 | 7440-44-0 | |
| Mean Total Organic Carbon | **9730** | mg/kg | 3020 | 746 | 1 | | 05/14/20 11:11 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP19-SED-WET-6-12-01-042520** **Lab ID: 10516160027** Collected: 04/25/20 13:30 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **23.1** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **7.8** | % | | | 1 | | 05/14/20 11:35 | | |
| Total Organic Carbon | **6930** | mg/kg | 5680 | 1400 | 1 | | 05/14/20 11:27 | 7440-44-0 | |
| Total Organic Carbon | **6410** | mg/kg | 5620 | 1390 | 1 | | 05/14/20 11:35 | 7440-44-0 | |
| Mean Total Organic Carbon | **6670** | mg/kg | 5650 | 1390 | 1 | | 05/14/20 11:35 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP19-SED-24-30-01-042520** **Lab ID: 10516160028** Collected: 04/25/20 13:45 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **25.8** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:29 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **15.6** | % | | | 1 | | 05/14/20 12:28 | | |
| Total Organic Carbon | **10500** | mg/kg | 5950 | 1470 | 1 | | 05/14/20 12:21 | 7440-44-0 | |
| Total Organic Carbon | **8950** | mg/kg | 5940 | 1470 | 1 | | 05/14/20 12:28 | 7440-44-0 | |
| Mean Total Organic Carbon | **9710** | mg/kg | 5950 | 1470 | 1 | | 05/14/20 12:28 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

**Sample: EP19-SED-36-42-01-042520** **Lab ID: 10516160029** Collected: 04/25/20 14:00 Received: 04/28/20 15:02 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **19.3** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:31 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **23.1** | % | | | 1 | | 05/14/20 13:08 | | |
| Total Organic Carbon | **5060** | mg/kg | 2390 | 590 | 1 | | 05/14/20 13:01 | 7440-44-0 | |
| Total Organic Carbon | **4010** | mg/kg | 2370 | 585 | 1 | | 05/14/20 13:08 | 7440-44-0 | |
| Mean Total Organic Carbon | **4540** | mg/kg | 2380 | 588 | 1 | | 05/14/20 13:08 | 7440-44-0 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 189226
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516160001, 10516160007, 10516160018, 10516160021, 10516160022, 10516160023, 10516160024, 10516160026, 10516160027, 10516160028, 10516160029

SAMPLE DUPLICATE: 744741

| Parameter | Units | 10516160022 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 14.7 | 13.2 | 11 | 5 | D6 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 189227
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia

Associated Lab Samples: 10516160002, 10516160003, 10516160004, 10516160005, 10516160006, 10516160008, 10516160009, 10516160010, 10516160011, 10516160012, 10516160013, 10516160014, 10516160015, 10516160016, 10516160017, 10516160019, 10516160020

SAMPLE DUPLICATE: 744749

| Parameter | Units | 10516160006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 14.8 | 14.5 | 2 | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 189303
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia

Associated Lab Samples: 10516160025

SAMPLE DUPLICATE: 744999

| Parameter | Units | 10517718006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 40.4 | 42.9 | 6 | 5 | D6 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 188405 — Analysis Method: EPA 365.1
QC Batch Method: SM 4500P B — Analysis Description: 365.1 Phosphorus, Total
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516160001, 10516160007, 10516160018, 10516160021, 10516160025

METHOD BLANK: 741593 — Matrix: Solid
Associated Lab Samples: 10516160001, 10516160007, 10516160018, 10516160021, 10516160025

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.5 | 0.91 | 05/06/20 13:36 | |

LABORATORY CONTROL SAMPLE: 741592

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 24.5 | 24.8 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741594 741595

| Parameter | Units | 10516160001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 204 | 39.2 | 39.5 | 201 | 252 | -9 | 120 | 80-120 | 23 | 20 | M1,R1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741596 741597

| Parameter | Units | 10516320012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 164 | 32.5 | 33.2 | 214 | 194 | 155 | 92 | 80-120 | 10 | 20 | M1 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 189264
QC Batch Method: EPA 300.0
Analysis Method: EPA 9056A
Analysis Description: 9056 IC Anions, Soil
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516160001, 10516160007, 10516160018, 10516160021, 10516160025

METHOD BLANK: 744872 Matrix: Solid
Associated Lab Samples: 10516160001, 10516160007, 10516160018, 10516160021, 10516160025

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 2.0 | 0.56 | 05/18/20 11:37 | |
| Chloride | mg/kg | ND | 11.9 | 5.0 | 05/18/20 11:37 | |
| Fluoride | mg/kg | ND | 1.5 | 0.65 | 05/18/20 11:37 | |
| Nitrate as N | mg/kg | ND | 2.0 | 0.74 | 05/18/20 11:37 | |
| Nitrite as N | mg/kg | ND | 2.0 | 0.33 | 05/18/20 11:37 | |
| Sulfate | mg/kg | ND | 19.9 | 4.5 | 05/18/20 11:37 | |

LABORATORY CONTROL SAMPLE: 744871

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | 50 | 49.1 | 98 | 80-120 | |
| Chloride | mg/kg | 500 | 516 | 103 | 80-120 | |
| Fluoride | mg/kg | 50 | 50.7 | 101 | 80-120 | |
| Nitrate as N | mg/kg | 50 | 51.1 | 102 | 80-120 | |
| Nitrite as N | mg/kg | 50 | 52.8 | 106 | 80-120 | |
| Sulfate | mg/kg | 500 | 520 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744873 744874

| Parameter | Units | 10516320011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 50 | 48.5 | 50.8 | 49.7 | 100 | 100 | 80-120 | 2 | 20 | |
| Chloride | mg/kg | 27.1 | 500 | 485 | 547 | 530 | 104 | 104 | 80-120 | 3 | 20 | |
| Fluoride | mg/kg | ND | 50 | 48.5 | 61.1 | 59.8 | 122 | 123 | 80-120 | 2 | 20 | M1 |
| Nitrate as N | mg/kg | ND | 50 | 48.5 | 52.8 | 51.3 | 104 | 103 | 80-120 | 3 | 20 | |
| Nitrite as N | mg/kg | ND | 50 | 48.5 | 51.1 | 50.0 | 101 | 102 | 80-120 | 2 | 20 | |
| Sulfate | mg/kg | 805 | 500 | 485 | 1290 | 1250 | 98 | 91 | 80-120 | 4 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744875 744876

| Parameter | Units | 10516320004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 50 | 49.8 | 50.5 | 51.0 | 99 | 101 | 80-120 | 1 | 20 | |
| Chloride | mg/kg | 33.8 | 500 | 498 | 556 | 557 | 104 | 105 | 80-120 | 0 | 20 | |
| Fluoride | mg/kg | ND | 50 | 49.8 | 54.0 | 53.7 | 108 | 108 | 80-120 | 0 | 20 | |
| Nitrate as N | mg/kg | ND | 50 | 49.8 | 52.0 | 52.6 | 102 | 104 | 80-120 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744875 744876

| Parameter | Units | 10516320004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrite as N | mg/kg | ND | 50 | 49.8 | 53.4 | 53.1 | 106 | 105 | 80-120 | 1 | 20 | |
| Sulfate | mg/kg | 247 | 500 | 498 | 777 | 771 | 106 | 105 | 80-120 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 188726
QC Batch Method: EPA 9060A
Analysis Method: EPA 9060A
Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516160002, 10516160003, 10516160004, 10516160005, 10516160006, 10516160008, 10516160009, 10516160010, 10516160011, 10516160012, 10516160013, 10516160014, 10516160015, 10516160016, 10516160017, 10516160019, 10516160020

METHOD BLANK: 742757
Matrix: Solid
Associated Lab Samples: 10516160002, 10516160003, 10516160004, 10516160005, 10516160006, 10516160008, 10516160009, 10516160010, 10516160011, 10516160012, 10516160013, 10516160014, 10516160015, 10516160016, 10516160017, 10516160019, 10516160020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 653 | 161 | 05/11/20 09:07 | |

LABORATORY CONTROL SAMPLE: 742758

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 2610 | 80 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 742759 742760

| Parameter | Units | 10516563005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 23200 | 120000 | 119000 | 142000 | 142000 | 99 | 100 | 70-130 | 0 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 742761 742762

| Parameter | Units | 10516160005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 32400 | 119000 | 120000 | 143000 | 146000 | 93 | 95 | 70-130 | 2 | 25 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 188852 — Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A — Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516160001, 10516160007, 10516160018, 10516160021, 10516160022, 10516160023, 10516160024, 10516160026, 10516160027, 10516160028, 10516160029

METHOD BLANK: 743239 — Matrix: Solid
Associated Lab Samples: 10516160001, 10516160007, 10516160018, 10516160021, 10516160022, 10516160023, 10516160024, 10516160026, 10516160027, 10516160028, 10516160029

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 655 | 162 | 05/13/20 08:57 | |

LABORATORY CONTROL SAMPLE: 743240

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 2770 | 85 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 743241 743242

| Parameter | Units | 10516160001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 19100 | 117000 | 118000 | 133000 | 137000 | 97 | 101 | 70-130 | 4 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 743243 743244

| Parameter | Units | 10516160027 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 6670 | 55900 | 56000 | 60500 | 60900 | 96 | 97 | 70-130 | 1 | 25 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

QC Batch: 189084
QC Batch Method: EPA 9060A
Analysis Method: EPA 9060A
Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516160025

METHOD BLANK: 744253 Matrix: Solid
Associated Lab Samples: 10516160025

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 606 | 149 | 05/15/20 09:01 | |

LABORATORY CONTROL SAMPLE: 744254

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 3110 | 95 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744255 744256

| Parameter | Units | 10517015003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 6900 | 11900 | 11900 | 18200 | 17700 | 94 | 91 | 70-130 | 3 | 25 | |

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# QUALIFIERS

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| R1 | RPD value was outside control limits. |
| R2 | RPD value was outside control limits due to matrix interference |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 10516160001 | RC17-SED-BANK-EAST-0-3-01-0423 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160002 | RC17-SED-BANK-EAST-3-6-01-0423 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160003 | RC17-SED-BANK-WEST-0-3-01-0423 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160004 | RC17-SED-BANK-WEST-3-6-01-0423 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160005 | RC18-SED-COMP-0-3-01-042320 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160006 | RC21-SED-COMP-0-3-01-042320 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160007 | EP21-SED-FOAM-0-6-01-042320 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160008 | FC1-SED-0-3-01-042320 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160009 | RC12-SED-12-18-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160010 | RC12-SED-30-36-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160011 | RC5-SED-0-4-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160012 | RC5-SED-4-6-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160013 | RC5-SED-22-26-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160014 | RC5-SED-WET-3-12-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160015 | RC5-SED-WET-12-18-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160016 | RC6-SED-WET-0-6-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160017 | RC6-SED-WET-12-18-01-042420 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160018 | RC3-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160019 | RC3-SED-WET-12-18-01-042520 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160020 | RC3A-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516160021 | RC12-SED-0-6-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160022 | EP21-SED-0-6-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160023 | EP17-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160024 | EP17-SED-WET-6-12-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160025 | EP17-SED-0-6-01-042520 | ASTM D 2974-13 (2013) | 189303 | | |
| 10516160026 | EP19-SED-WET-0-6-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160027 | EP19-SED-WET-6-12-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160028 | EP19-SED-24-30-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160029 | EP19-SED-36-42-01-042520 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516160001 | RC17-SED-BANK-EAST-0-3-01-0423 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516160007 | EP21-SED-FOAM-0-6-01-042320 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516160018 | RC3-SED-WET-0-6-01-042520 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516160021 | RC12-SED-0-6-01-042520 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516160025 | EP17-SED-0-6-01-042520 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516160001 | RC17-SED-BANK-EAST-0-3-01-0423 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516160007 | EP21-SED-FOAM-0-6-01-042320 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516160018 | RC3-SED-WET-0-6-01-042520 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516160021 | RC12-SED-0-6-01-042520 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516160025 | EP17-SED-0-6-01-042520 | EPA 300.0 | 189264 | EPA 9056A | 189270 |

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10516160001** | **RC17-SED-BANK-EAST-0-3-01-0423** | EPA 9060A | 188852 | | |
| **10516160001** | **RC17-SED-BANK-EAST-0-3-01-0423** | EPA 9060A | 189019 | | |
| **10516160002** | **RC17-SED-BANK-EAST-3-6-01-0423** | EPA 9060A | 188726 | | |
| **10516160002** | **RC17-SED-BANK-EAST-3-6-01-0423** | EPA 9060A | 188901 | | |
| **10516160003** | **RC17-SED-BANK-WEST-0-3-01-0423** | EPA 9060A | 188726 | | |
| **10516160003** | **RC17-SED-BANK-WEST-0-3-01-0423** | EPA 9060A | 188901 | | |
| **10516160004** | **RC17-SED-BANK-WEST-3-6-01-0423** | EPA 9060A | 188726 | | |
| **10516160004** | **RC17-SED-BANK-WEST-3-6-01-0423** | EPA 9060A | 188901 | | |
| **10516160005** | **RC18-SED-COMP-0-3-01-042320** | EPA 9060A | 188726 | | |
| **10516160005** | **RC18-SED-COMP-0-3-01-042320** | EPA 9060A | 188901 | | |
| **10516160006** | **RC21-SED-COMP-0-3-01-042320** | EPA 9060A | 188726 | | |
| **10516160006** | **RC21-SED-COMP-0-3-01-042320** | EPA 9060A | 188901 | | |
| **10516160007** | **EP21-SED-FOAM-0-6-01-042320** | EPA 9060A | 188852 | | |
| **10516160007** | **EP21-SED-FOAM-0-6-01-042320** | EPA 9060A | 189019 | | |
| **10516160008** | **FC1-SED-0-3-01-042320** | EPA 9060A | 188726 | | |
| **10516160008** | **FC1-SED-0-3-01-042320** | EPA 9060A | 188901 | | |
| **10516160009** | **RC12-SED-12-18-01-042420** | EPA 9060A | 188726 | | |
| **10516160009** | **RC12-SED-12-18-01-042420** | EPA 9060A | 188901 | | |
| **10516160010** | **RC12-SED-30-36-01-042420** | EPA 9060A | 188726 | | |
| **10516160010** | **RC12-SED-30-36-01-042420** | EPA 9060A | 188901 | | |
| **10516160011** | **RC5-SED-0-4-01-042420** | EPA 9060A | 188726 | | |
| **10516160011** | **RC5-SED-0-4-01-042420** | EPA 9060A | 188901 | | |
| **10516160012** | **RC5-SED-4-6-01-042420** | EPA 9060A | 188726 | | |
| **10516160012** | **RC5-SED-4-6-01-042420** | EPA 9060A | 188901 | | |
| **10516160013** | **RC5-SED-22-26-01-042420** | EPA 9060A | 188726 | | |
| **10516160013** | **RC5-SED-22-26-01-042420** | EPA 9060A | 188901 | | |
| **10516160014** | **RC5-SED-WET-3-12-01-042420** | EPA 9060A | 188726 | | |
| **10516160014** | **RC5-SED-WET-3-12-01-042420** | EPA 9060A | 188901 | | |
| **10516160015** | **RC5-SED-WET-12-18-01-042420** | EPA 9060A | 188726 | | |



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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007
Pace Project No.: 10516160

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10516160015** | **RC5-SED-WET-12-18-01-042420** | EPA 9060A | 188901 | | |
| **10516160016** | **RC6-SED-WET-0-6-01-042420** | EPA 9060A | 188726 | | |
| **10516160016** | **RC6-SED-WET-0-6-01-042420** | EPA 9060A | 188901 | | |
| **10516160017** | **RC6-SED-WET-12-18-01-042420** | EPA 9060A | 188726 | | |
| **10516160017** | **RC6-SED-WET-12-18-01-042420** | EPA 9060A | 188901 | | |
| **10516160018** | **RC3-SED-WET-0-6-01-042520** | EPA 9060A | 188852 | | |
| **10516160018** | **RC3-SED-WET-0-6-01-042520** | EPA 9060A | 189019 | | |
| **10516160019** | **RC3-SED-WET-12-18-01-042520** | EPA 9060A | 188726 | | |
| **10516160019** | **RC3-SED-WET-12-18-01-042520** | EPA 9060A | 188901 | | |
| **10516160020** | **RC3A-SED-WET-0-6-01-042520** | EPA 9060A | 188726 | | |
| **10516160020** | **RC3A-SED-WET-0-6-01-042520** | EPA 9060A | 188901 | | |
| **10516160021** | **RC12-SED-0-6-01-042520** | EPA 9060A | 188852 | | |
| **10516160021** | **RC12-SED-0-6-01-042520** | EPA 9060A | 189019 | | |
| **10516160022** | **EP21-SED-0-6-01-042520** | EPA 9060A | 188852 | | |
| **10516160022** | **EP21-SED-0-6-01-042520** | EPA 9060A | 189019 | | |
| **10516160023** | **EP17-SED-WET-0-6-01-042520** | EPA 9060A | 188852 | | |
| **10516160023** | **EP17-SED-WET-0-6-01-042520** | EPA 9060A | 189019 | | |
| **10516160024** | **EP17-SED-WET-6-12-01-042520** | EPA 9060A | 188852 | | |
| **10516160024** | **EP17-SED-WET-6-12-01-042520** | EPA 9060A | 189019 | | |
| **10516160025** | **EP17-SED-0-6-01-042520** | EPA 9060A | 189084 | | |
| **10516160025** | **EP17-SED-0-6-01-042520** | EPA 9060A | 189085 | | |
| **10516160026** | **EP19-SED-WET-0-6-01-042520** | EPA 9060A | 188852 | | |
| **10516160026** | **EP19-SED-WET-0-6-01-042520** | EPA 9060A | 189019 | | |
| **10516160027** | **EP19-SED-WET-6-12-01-042520** | EPA 9060A | 188852 | | |
| **10516160027** | **EP19-SED-WET-6-12-01-042520** | EPA 9060A | 189019 | | |
| **10516160028** | **EP19-SED-24-30-01-042520** | EPA 9060A | 188852 | | |
| **10516160028** | **EP19-SED-24-30-01-042520** | EPA 9060A | 189019 | | |
| **10516160029** | **EP19-SED-36-42-01-042520** | EPA 9060A | 188852 | | |
| **10516160029** | **EP19-SED-36-42-01-042520** | EPA 9060A | 189019 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | AECOM | Report To: | Andrew Tarara | Attention: | USAPImaging@aecom.com |
| Address: | 800 LaSalle Ave, Suite 1100 | Copy To: | Amanda Lanning | Company Name: | AECOM |
| | Minneapolis, MN 55402 | | | Address: | |
| Email To: | andrew.tarara@aecom.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 612-376-2452 Fax: | Project Name: | MPCA P1007 | Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Requested Due Date/TAT: | 10-day Standard | Project Number | 60618753 | Pace Profile #: | 22815 |

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

WO#: 10516160

10516160

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED: COMPOSITE START DATE | COMPOSITE START TIME | COMPOSITE END/GRAB DATE | COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | Total Metals* | Anions by 300.0** | Total Phosphorus | TOC | Dry weight | Residual | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC17-SED-BANK-EAST-0-3-01-042320 | SL | G | 4/23/20 | 1110 | | | | 2 | X | | | | | | | | | | X | X | X | | | 001 |
| 2 | RC17-SED-BANK-EAST-3.6-01-042320 | SL | G | 4/23/20 | 1130 | | | | 1 | X | | | | | | | | | | | | X | | | 002 |
| 3 | RC12-SED-BANK-WEST-0-3-01-042320 | SL | G | | 1200 | | | | 1 | X | | | | | | | | | | | | X | | | 003 |
| 4 | RC12-SED-BANK-WEST-3.6-01-042320 | SL | G | | 1215 | | | | 1 | X | | | | | | | | | | | | X | | | 004 |
| 5 | RC18-SED-COMP-0-3-01-042320 | SL | G | | 1400 | | | | 1 | X | | | | | | | | | | | | X | | | 005 |
| 6 | RC21-SED-COMP-0-3-01-042320 | SL | G | | 0950 | | | | 1 | X | | | | | | | | | | | | X | | | 006 |
| 7 | EP21-SED-FOAM-0-6-01-042320 | SL | G | | 1240 | | | | 2 | X | | | | | | | | | | X | X | X | | | 007 |
| 8 | FC1-SED-0-3-01-042320 | SL | G | | 1445 | | | | 1 | X | | | | | | | | | | | | X | | | 008 |
| 9 | ~~RC12-SED-COMP-0-3-01-042420~~ | SL | G | | | | | | | | | | | | | | | | | | | | | | |
| 10 | ~~RC18-SED-COMP-0-6-01-042420~~ | SL | G | 4/24/20 | 1350 | | | | 2 | X | | | | | | | | | | X | X | X | | | |
| 11 | RC12-SED-12-18-01-042420 | SL | G | 4/24/20 | 1400 | | | | 1 | X | | | | | | | | | | | | X | | | 009 |
| 12 | RC12-SED-30-36-01-042420 | SL | G | 4/24/20 | 1420 | | | | 1 | X | | | | | | | | | | | | X | | | 010 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| * - Ca, Fe, Mg, K, Na, Zn | Amanda Lanning/AECOM | 4/28/20 | 1502 | [illegible] - PACE | 4/28/20 | 1502 | 5.0 | Y | N | Y |
| ** - bromide, chloride, fluoride, nitrate, nitrite, sulfate | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/23/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | AECOM | Report To: | Andrew Tarara | Attention: | USAPImaging@aecom.com |
| Address: | 800 LaSalle Ave, Suite 1100 | Copy To: | Amanda Lanning | Company Name: | AECOM |
| | Minneapolis, MN 55402 | | | Address: | |
| Email To: | andrew.tarara@aecom.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 612-376-2452 Fax: | Project Name: | MPCA P1007 | Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Requested Due Date/TAT: | 10-day Standard | Project Number: | 60618753 | Pace Profile #: | 22815 |

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

**SAMPLE ID**
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | Total Metals* | Anions by 300.0** | Total Phosphorus | TOC | Dry weight | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC5-SED-0-4-01-042420 | SL | G | 4/24/20 | 1000 | | | | 1 | X | | | | | | | | | | | | X | | | 01 |
| 2 | RC5-SED-4-6-01-042420 | SL | G | 4/24/20 | 1015 | | | | 1 | X | | | | | | | | | | | | X | | | 012 |
| 3 | RC5-SED-22"-26-01-042420 | SL | G | | 1030 | | | | 1 | X | | | | | | | | | | | | X | | | 013 |
| 4 | RC5-SED-WET-3-12-01-042420 | SL | G | | 1045 | | | | 1 | X | | | | | | | | | | | | X | | | 014 |
| 5 | RC5-SED-WET-12-18-01-042420 | SL | G | | 1100 | | | | 1 | X | | | | | | | | | | | | X | | | 015 |
| 6 | RC6SED-WET-0-6-01-042420 | SL | G | | 1120 | | | | 1 | X | | | | | | | | | | | | X | | | 016 |
| 7 | RC6-SED-WET-12-18-01-042420 | SL | G | | 1140 | | | | 1 | X | | | | | | | | | | | | X | | | 017 |
| 8 | RC3-SED-WET-0-6-01-042520 | SL | G | 4/25/20 | 0900 | | | | 2 | X | | | | | | | | | | X | X | X | | | 018 |
| 9 | RC3-SED-WET-12-18-01-042520 | SL | G | 4/25/20 | 0915 | | | | 1 | X | | | | | | | | | | | | X | | | 019 |
| 10 | RC3A-SED-WET-0-6-01-042520 | SL | G | | 0930 | | | | 1 | X | | | | | | | | | | | | X | | | 020 |
| 11 | RC12-SED-0-6-01-042520 | SL | G | | 1015 | | | | 1 | X | | | | | | | | | | X | X | X | | | 021 |
| 12 | | SL | G | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| * - Ca, Fe, Mg, K, Na, Zn | Amanda Lanning/AECOM | 4/28/20 | 15:02 | CO - PACE | 4/28/20 | 1502 | 5.0 | Y | N | Y |
| ** - bromide, chloride, fluoride, nitrate, nitrite, sulfate | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 4/28/20 15:02

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)



Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 3

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | AECOM | Report To: | Andrew Tarara | Attention: | USAPImaging@aecom.com |
| Address: | 800 LaSalle Ave, Suite 1100 | Copy To: | Amanda Lanning | Company Name: | AECOM |
| | Minneapolis, MN 55402 | | | Address: | |
| Email To: | andrew.tarara@aecom.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 612-376-2452 Fax: | Project Name: | MPCA P1007 | Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Requested Due Date/TAT: | 10-day Standard | Project Number: | 60618753 | Pace Profile #: | 22815 |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Valid Matrix Codes

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | Total Metals* | Anions by 300.0** | Total Phosphorus | TOC | Dry weight | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EP21-SED-0-6-01-042520 | SL | G | | 1030 | | | | | | | | | | | | | | | | | X | | | 022 |
| 2 | EP17-SED-WET-0-6-01-042520 | SL | G | | 1215 | | | | | | | | | | | | | | | | | X | | | 023 |
| 3 | EP17-SED-WET-6-12-01-042520 | SL | G | | 1230 | | | | | | | | | | | | | | | | | X | | | 024 |
| 4 | EP17-SED-0-6-01-042520 | SL | G | | 1245 | | | | | | | | | | | | | | | X | X | X | | | 025 |
| 5 | EP19-SED-WET-0-6-01-042520 | SL | G | | 1315 | | | | | | | | | | | | | | | | | X | | | 026 |
| 6 | EP19-SED-WET-6-12-01-042520 | SL | G | | 1330 | | | | | | | | | | | | | | | | | X | | | 027 |
| 7 | EP19-SED-24-30-01-042520 | SL | G | | 1345 | | | | | | | | | | | | | | | | | X | | | 028 |
| 8 | EP19-SED-36-42-01-042520 | SL | G | | 1400 | | | | | | | | | | | | | | | | | X | | | 029 |
| 9 | | SL | G | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | SL | G | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | SL | G | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | SL | G | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| * - Ca, Fe, Mg, K, Na, Zn | ~~Amanda Lanning/AECOM~~ Alex Seijem | 4/28/20 | 15:02 | Cer - PACE | 4/28/20 | 1502 | 5.0 | Y | N | Y |
| ** - bromide, chloride, fluoride, nitrate, nitrite, sulfate | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ~~[illegible]~~ Alex Seijem

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/28/20 15:02

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt Form** | Document Revised: 19Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: **F-MN-L-213-rev.31** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt**

**Client Name:** AECOM

**Project #:** WO#: 10516160

PM: TS1 Due Date: 05/12/20

CLIENT: AECOM

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

**Tracking Number:** _____

**Custody Seal on Cooler/Box Present?** ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

**Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

**Thermometer:** ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

**Did Samples Originate in West Virginia?** ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 5.0 °C

**Average Corrected Temp (no temp blank only):** ☐ See Exceptions ☐ 1 Container _____ °C

**Correction Factor:** TRUE **Cooler Temp Corrected w/temp blank:** 5.0 °C

**USDA Regulated Soil:** ( ☐ N/A, water sample/Other: _____ )

**Date/Initials of Person Examining Contents:** MK2 4-28-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | **COMMENTS:** |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☒ Yes | ☐ No | | 1. |
| Chain of Custody Relinquished? | ☒ Yes | ☐ No | | 2. |
| Sampler Name and/or Signature on COC? | ☒ Yes | ☐ No | ☐ N/A | 3. |
| Samples Arrived within Hold Time? | ☒ Yes | ☐ No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☒ No | | 5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____ |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☒ No | | 6. |
| Sufficient Volume? | ☒ Yes | ☐ No | | 7. |
| Correct Containers Used? -Pace Containers Used? | ☒ Yes ☒ Yes | ☐ No ☐ No | | 8. |
| Containers Intact? | ☒ Yes | ☐ No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☒ N/A | 10. Is sediment visible in the dissolved container? ☐ Yes ☐ No |
| Is sufficient information available to reconcile the samples to the COC? Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____ | ☒ Yes | ☐ No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ Extra 5GCV for RC12-SED-0-6-01 |
| All containers needing acid/base preservation have been checked? | ☐ Yes | ☐ No | ☒ N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☐ Yes | ☐ No | ☒ N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☐ Yes | ☐ No | ☒ N/A | Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☐ Yes | ☐ No | ☒ N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐ Yes | ☐ No | ☒ N/A | |
| Trip Blank Present? | ☐ Yes | ☐ No | ☒ N/A | 14. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☒ N/A | Pace Trip Blank Lot # (if purchased): _____ |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

**Project Manager Review:** _____ **Date:** 4/30/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: MK2

WO# : 12143462

12143462

# Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN

Cert. Needed: ☒ Yes ☐

**Workorder:** 10516160 **Workorder Name:** 60618753 MPCA P1007

**Owner Received Date:** 4/28/2020 **Results Requested By:** 5/12/2020

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: Unp.-JGCU/JGFU | | | | | | Requested Analysis: Anions by 300.0/9056A*** | TOC by 9060A | Total Phosphorus by 365.1 | Dry weight | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC17-SED-BANK-EAST-0-3-01-0423 | PS | 4/23/2020 11:10 | 10516160001 | Solid | 2 | | | | | | X | X | X | X | | | | | | | | | |
| 2 | RC17-SED-BANK-EAST-3-6-01-0423 | PS | 4/23/2020 11:30 | 10516160002 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 3 | RC17-SED-BANK-WEST-0-3-01-0423 | PS | 4/23/2020 12:00 | 10516160003 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 4 | RC17-SED-BANK-WEST-3-6-01-0423 | PS | 4/23/2020 12:15 | 10516160004 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 5 | RC18-SED-COMP-0-3-01-042320 | PS | 4/23/2020 14:00 | 10516160005 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 6 | RC21-SED-COMP-0-3-01-042320 | PS | 4/23/2020 09:50 | 10516160006 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 7 | EP21-SED-FOAM-0-6-01-042320 | PS | 4/23/2020 12:40 | 10516160007 | Solid | 2 | | | | | | X | X | X | | | | | | | | | | |
| 8 | FC1-SED-0-3-01-042320 | PS | 4/23/2020 14:45 | 10516160008 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 9 | RC12-SED-12-18-01-042420 | PS | 4/24/2020 14:00 | 10516160009 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 10 | RC12-SED-30-36-01-042420 | PS | 4/24/2020 14:30 | 10516160010 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 11 | RC5-SED-0-4-01-042420 | PS | 4/24/2020 10:00 | 10516160011 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 12 | RC5-SED-4-6-01-042420 | PS | 4/24/2020 10:15 | 10516160012 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 13 | RC5-SED-22-26-01-042420 | PS | 4/24/2020 10:30 | 10516160013 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 14 | RC5-SED-WET-3-12-01-042420 | PS | 4/24/2020 10:45 | 10516160014 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 15 | RC5-SED-WET-12-18-01-042420 | PS | 4/24/2020 11:00 | 10516160015 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 16 | RC6-SED-WET-0-6-01-042420 | PS | 4/24/2020 11:20 | 10516160016 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 17 | RC6-SED-WET-12-18-01-042420 | PS | 4/24/2020 11:40 | 10516160017 | Solid | 1 | | | | | | | X | | | | | | | | | | | |
| 18 | RC3-SED-WET-0-6-01-042520 | PS | 4/25/2020 09:00 | 10516160018 | Solid | 2 | | | | | | X | X | X | | | | | | | | | | |
| 19 | RC3-SED-WET-12-18-01-042520 | PS | 4/25/2020 09:15 | 10516160019 | Solid | 1 | | | | | | | X | | ↓ | | | | | | | | | |

# Chain of Custody

Pace Analytical
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN
Cert. Needed: [X] Yes [ ] No

**Workorder:** 10516160 **Workorder Name:** 60618753 MPCA P1007

**Owner Received Date:** 4/28/2020 **Results Requested By:** 5/12/2020

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: Unp. - JGCU/JGFU | Anions by 300.0/9056A*** | TOC by 9060A | Total Phosphorus by 365.1 | Dry weight | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | RC3A-SED-WET-0-6-01-042520 | PS | 4/25/2020 09:30 | 10516160020 | Solid | 1 | | X | | X | |
| 21 | RC12-SED-0-6-01-042520 | PS | 4/25/2020 10:15 | 10516160021 | Solid | 2 | X | X | X | | |
| 22 | EP21-SED-0-6-01-042520 | PS | 4/25/2020 10:30 | 10516160022 | Solid | 1 | | X | | | |
| 23 | EP17-SED-WET-0-6-01-042520 | PS | 4/25/2020 12:15 | 10516160023 | Solid | 1 | | X | | | |
| 24 | EP17-SED-WET-6-12-01-042520 | PS | 4/25/2020 12:30 | 10516160024 | Solid | 1 | | X | | | |
| 25 | EP17-SED-0-6-01-042520 | PS | 4/25/2020 12:45 | 10516160025 | Solid | 2 | X | X | X | | |
| 26 | EP19-SED-WET-0-6-01-042520 | PS | 4/25/2020 13:15 | 10516160026 | Solid | 1 | | X | | | |
| 27 | EP19-SED-WET-6-12-01-042520 | PS | 4/25/2020 13:30 | 10516160027 | Solid | 1 | | X | | | |
| 28 | EP19-SED-24-30-01-042520 | PS | 4/25/2020 13:45 | 10516160028 | Solid | 1 | | X | | | |
| 29 | EP19-SED-36-42-01-042520 | PS | 4/25/2020 14:00 | 10516160029 | Solid | 1 | | X | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | [illegible] Pace | 4/30/20 1600 | [illegible] 4/30/20 | 1830 |
| 2 | [illegible] 4/30/20 | 2245 | J. Matthews | 5/1/20 0700 |
| 3 | | | | |

**Comments**

*** - bromide, chloride, fluoride, nitrate, nitrite, sulfate

**Cooler Temperature on Receipt** 0.1 °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

| Pace Analytical | Document Name: Sample Condition Upon Receipt Form | Document Revised: 25Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: F-VM-C-001-rev.14 | Issuing Authority: Pace Virginia Minnesota Quality Office |

**Sample Condition Upon Receipt**

Client Name: Pace MN

Project #: WO#: 12143462

PM: CLJ Due Date: 05/12/20

CLIENT: PACE MPLS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 140792808 Type of Ice: ☐ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read °C: -0.2 Cooler Temp Corrected °C: 0.1 Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6 °C Correction Factor: 0.3 Date and Initials of Person Examining Contents: 4/30/20 DC

Comments: BM 5/4/20

| | | | | |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Chain of Custody Filled Out? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Sampler Name and Signature on COC? | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☑ No | ☐ N/A | 6. |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | ☐ N/A | 7. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 8. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved containers. |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL | ☑ Yes | ☐ No | ☐ N/A | 12. |
| All containers needing acid/base preservation properly preserved? | ☐ Yes | ☐ No | ☑ N/A | 13. Note samples needing adjustment: |
| Headspace in Methyl Mercury Container | ☐ Yes | ☐ No | ☑ N/A | 14. |
| Headspace in VOA Vials ( >6mm)? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if purchased): | | | | |

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: Leah Morehouse Date: 05/04/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 31, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60618753 P1007
Pace Project No.: 10516320

Dear Andrew Tarara:

Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Virginia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## CERTIFICATIONS

Project: 60618753 P1007
Pace Project No.: 10516320

**Pace Analytical Services Virginia Minnesota**
315 Chestnut Street, Virginia, MN 55792
Montana Certificate #CERT0103
Alaska Certification UST-107
Minnesota Dept of Health Certification #: 027-137-445
North Dakota Certification: # R-203
Wisconsin DNR Certification # : 998027470
WA Department of Ecology Lab ID# C1007

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## SAMPLE SUMMARY

Project: 60618753 P1007
Pace Project No.: 10516320

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10516320001** | **EP16-SED-0-6-01-042720** | Solid | 04/27/20 14:00 | 04/29/20 18:36 |
| **10516320002** | **EP16-SED-6-18-01-042720** | Solid | 04/27/20 14:30 | 04/29/20 18:36 |
| **10516320003** | **EP16-SED-30-36-01-042720** | Solid | 04/27/20 14:45 | 04/29/20 18:36 |
| **10516320004** | **EP20-SED-WET-0-6-01-042720** | Solid | 04/27/20 09:30 | 04/29/20 18:36 |
| **10516320005** | **EP20-SED-WET-6-12-01-042720** | Solid | 04/27/20 09:45 | 04/29/20 18:36 |
| **10516320006** | **EP20-SED-24-30-01-042720** | Solid | 04/27/20 10:00 | 04/29/20 18:36 |
| **10516320007** | **EP20-SED-36-42-01-042720** | Solid | 04/27/20 10:15 | 04/29/20 18:36 |
| **10516320008** | **EP23-SED-0-6-01-042720** | Solid | 04/27/20 12:30 | 04/29/20 18:36 |
| **10516320009** | **EP24-SED-0-6-01-042720** | Solid | 04/27/20 11:30 | 04/29/20 18:36 |
| **10516320010** | **BP1-SED-0-6-01-042720** | Solid | 04/27/20 11:00 | 04/29/20 18:36 |
| **10516320011** | **VB1-SED-COMP-0-6-01-042720** | Solid | 04/27/20 12:00 | 04/29/20 18:36 |
| **10516320012** | **VB3-SED-COMP-0-6-01-042720** | Solid | 04/27/20 12:30 | 04/29/20 18:36 |



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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: 60618753 P1007
Pace Project No.: 10516320

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| 10516320001 | EP16-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516320002 | EP16-SED-6-18-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320003 | EP16-SED-30-36-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320004 | EP20-SED-WET-0-6-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| 10516320005 | EP20-SED-WET-6-12-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320006 | EP20-SED-24-30-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320007 | EP20-SED-36-42-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320008 | EP23-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320009 | EP24-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320010 | BP1-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320011 | VB1-SED-COMP-0-6-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| 10516320012 | VB3-SED-COMP-0-6-01-042720 | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 60618753 P1007
Pace Project No.: 10516320

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|

PASI-V = Pace Analytical Services - Virginia



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## SUMMARY OF DETECTION

Project: 60618753 P1007
Pace Project No.: 10516320

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10516320001** | **EP16-SED-0-6-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 24.6 | % | 0.10 | 05/15/20 16:32 | |
| EPA 365.1 | Phosphorus | 65.7 | mg/kg | 3.3 | 05/06/20 14:01 | |
| EPA 9056A | Chloride | 25.3 | mg/kg | 12.2 | 05/18/20 13:01 | |
| EPA 9056A | Sulfate | 155 | mg/kg | 20.4 | 05/18/20 13:01 | |
| EPA 9060A | RPD% | 8.8 | % | | 05/13/20 11:31 | |
| EPA 9060A | Total Organic Carbon | 6760 | mg/kg | 2960 | 05/13/20 11:22 | |
| EPA 9060A | Total Organic Carbon | 6180 | mg/kg | 2950 | 05/13/20 11:31 | |
| EPA 9060A | Mean Total Organic Carbon | 6470 | mg/kg | 2960 | 05/13/20 11:31 | |
| **10516320002** | **EP16-SED-6-18-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 18.6 | % | 0.10 | 05/15/20 16:24 | |
| EPA 9060A | RPD% | 4.6 | % | | 05/14/20 14:35 | |
| EPA 9060A | Total Organic Carbon | 1200 | mg/kg | 604 | 05/14/20 14:28 | |
| EPA 9060A | Total Organic Carbon | 1260 | mg/kg | 601 | 05/14/20 14:35 | |
| EPA 9060A | Mean Total Organic Carbon | 1230 | mg/kg | 603 | 05/14/20 14:35 | |
| **10516320003** | **EP16-SED-30-36-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 17.7 | % | 0.10 | 05/15/20 16:22 | |
| EPA 9060A | RPD% | 6.9 | % | | 05/14/20 14:59 | |
| EPA 9060A | Total Organic Carbon | 1500 | mg/kg | 749 | 05/14/20 14:52 | |
| EPA 9060A | Total Organic Carbon | 1610 | mg/kg | 749 | 05/14/20 14:59 | |
| EPA 9060A | Mean Total Organic Carbon | 1560 | mg/kg | 749 | 05/14/20 14:59 | |
| **10516320004** | **EP20-SED-WET-0-6-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 23.2 | % | 0.10 | 05/15/20 16:35 | |
| EPA 365.1 | Phosphorus | 105 | mg/kg | 3.2 | 05/06/20 13:50 | |
| EPA 9056A | Chloride | 33.8 | mg/kg | 12.1 | 05/18/20 15:28 | |
| EPA 9056A | Sulfate | 247 | mg/kg | 20.1 | 05/18/20 15:28 | |
| EPA 9060A | RPD% | 9.7 | % | | 05/13/20 11:47 | |
| EPA 9060A | Total Organic Carbon | 15900 | mg/kg | 11800 | 05/13/20 11:38 | |
| EPA 9060A | Total Organic Carbon | 17500 | mg/kg | 11900 | 05/13/20 11:47 | |
| EPA 9060A | Mean Total Organic Carbon | 16700 | mg/kg | 11800 | 05/13/20 11:47 | |
| **10516320005** | **EP20-SED-WET-6-12-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 18.6 | % | 0.10 | 05/15/20 16:27 | |
| EPA 9060A | RPD% | 11.4 | % | | 05/14/20 15:22 | |
| EPA 9060A | Total Organic Carbon | 8170 | mg/kg | 5980 | 05/14/20 15:15 | |
| EPA 9060A | Total Organic Carbon | 9150 | mg/kg | 5930 | 05/14/20 15:22 | |
| EPA 9060A | Mean Total Organic Carbon | 8660 | mg/kg | 5960 | 05/14/20 15:22 | |
| **10516320006** | **EP20-SED-24-30-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 17.1 | % | 0.10 | 05/15/20 16:27 | |
| EPA 9060A | RPD% | 14.2 | % | | 05/14/20 15:45 | |
| EPA 9060A | Total Organic Carbon | 9800 | mg/kg | 5930 | 05/14/20 15:38 | |
| EPA 9060A | Total Organic Carbon | 8500 | mg/kg | 5870 | 05/14/20 15:45 | |
| EPA 9060A | Mean Total Organic Carbon | 9150 | mg/kg | 5900 | 05/14/20 15:45 | |
| **10516320007** | **EP20-SED-36-42-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 20.4 | % | 0.10 | 05/15/20 16:29 | |
| EPA 9060A | RPD% | 6.0 | % | | 05/14/20 16:09 | |



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## SUMMARY OF DETECTION

Project: 60618753 P1007
Pace Project No.: 10516320

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10516320007** | **EP20-SED-36-42-01-042720** | | | | | |
| EPA 9060A | Total Organic Carbon | 2500 | mg/kg | 1490 | 05/14/20 16:01 | |
| EPA 9060A | Total Organic Carbon | 2350 | mg/kg | 1490 | 05/14/20 16:09 | |
| EPA 9060A | Mean Total Organic Carbon | 2430 | mg/kg | 1490 | 05/14/20 16:09 | |
| **10516320008** | **EP23-SED-0-6-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 11.2 | % | 0.10 | 05/15/20 16:30 | |
| EPA 9060A | RPD% | 16.0 | % | | 05/14/20 16:35 | |
| EPA 9060A | Total Organic Carbon | 774 | mg/kg | 647 | 05/14/20 16:25 | |
| EPA 9060A | Total Organic Carbon | 659 | mg/kg | 651 | 05/14/20 16:35 | |
| EPA 9060A | Mean Total Organic Carbon | 716 | mg/kg | 649 | 05/14/20 16:35 | |
| **10516320009** | **EP24-SED-0-6-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 43.0 | % | 0.10 | 05/15/20 16:31 | |
| EPA 365.1 | Phosphorus | 323 | mg/kg | 4.4 | 05/06/20 13:52 | |
| EPA 9056A | Chloride | 12.9 | mg/kg | 11.5 | 05/18/20 13:22 | |
| EPA 9056A | Sulfate | 250 | mg/kg | 19.2 | 05/18/20 13:22 | |
| EPA 9060A | RPD% | 50.2 | % | | 05/14/20 09:32 | R2 |
| EPA 9060A | Total Organic Carbon | 14900 | mg/kg | 11800 | 05/14/20 09:25 | |
| EPA 9060A | Mean Total Organic Carbon | 11900 | mg/kg | 11800 | 05/14/20 09:32 | |
| **10516320010** | **BP1-SED-0-6-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 23.7 | % | 0.10 | 05/18/20 14:12 | |
| EPA 365.1 | Phosphorus | 106 | mg/kg | 3.3 | 05/06/20 13:51 | |
| EPA 9056A | Sulfate | 71.5 | mg/kg | 19.5 | 05/18/20 14:04 | |
| EPA 9060A | RPD% | 23.8 | % | | 05/15/20 09:38 | |
| EPA 9060A | Total Organic Carbon | 20900 | mg/kg | 11700 | 05/15/20 09:30 | |
| EPA 9060A | Total Organic Carbon | 16500 | mg/kg | 11600 | 05/15/20 09:38 | |
| EPA 9060A | Mean Total Organic Carbon | 18700 | mg/kg | 11600 | 05/15/20 09:38 | |
| **10516320011** | **VB1-SED-COMP-0-6-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 29.0 | % | 0.10 | 05/15/20 16:50 | |
| EPA 365.1 | Phosphorus | 543 | mg/kg | 14.4 | 05/06/20 14:04 | |
| EPA 9056A | Chloride | 27.1 | mg/kg | 12.3 | 05/18/20 11:58 | |
| EPA 9056A | Sulfate | 805 | mg/kg | 20.5 | 05/18/20 11:58 | |
| EPA 9060A | RPD% | 17.3 | % | | 05/15/20 10:00 | |
| EPA 9060A | Total Organic Carbon | 16700 | mg/kg | 11900 | 05/15/20 09:53 | |
| EPA 9060A | Total Organic Carbon | 14000 | mg/kg | 11900 | 05/15/20 10:00 | |
| EPA 9060A | Mean Total Organic Carbon | 15400 | mg/kg | 11900 | 05/15/20 10:00 | |
| **10516320012** | **VB3-SED-COMP-0-6-01-042720** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 24.6 | % | 0.10 | 05/18/20 14:12 | |
| EPA 365.1 | Phosphorus | 164 | mg/kg | 3.2 | 05/06/20 13:58 | M1 |
| EPA 9056A | Chloride | 13.9 | mg/kg | 12.0 | 05/18/20 17:13 | |
| EPA 9056A | Sulfate | 61.6 | mg/kg | 20.1 | 05/18/20 17:13 | |
| EPA 9060A | RPD% | 26.9 | % | | 05/15/20 10:22 | |
| EPA 9060A | Total Organic Carbon | 13500 | mg/kg | 11600 | 05/15/20 10:15 | |
| EPA 9060A | Mean Total Organic Carbon | 11900 | mg/kg | 11700 | 05/15/20 10:22 | |



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10516320

**Method:** **EPA 365.1**
**Description:** 365.1 Phosphorus, Total
**Client:** AECOM MN ND
**Date:** May 31, 2020

**General Information:**
6 samples were analyzed for EPA 365.1 by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM 4500P B with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 188405

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10516160001,10516320012

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 741594)
  - Phosphorus
- MS (Lab ID: 741596)
  - Phosphorus

R1: RPD value was outside control limits.

- MSD (Lab ID: 741595)
  - Phosphorus

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10516320

**Method:** **EPA 9056A**
**Description:** 9056 IC Anions
**Client:** AECOM MN ND
**Date:** May 31, 2020

**General Information:**
6 samples were analyzed for EPA 9056A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 300.0 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 189264

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10516320004,10516320011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 744873)
  - Fluoride
- MSD (Lab ID: 744874)
  - Fluoride

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10516320

**Method:** **EPA 9060A**
**Description:** Total Organic Carbon
**Client:** AECOM MN ND
**Date:** May 31, 2020

**General Information:**
12 samples were analyzed for EPA 9060A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP16-SED-0-6-01-042720** **Lab ID: 10516320001** Collected: 04/27/20 14:00 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **24.6** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:32 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **65.7** | mg/kg | 3.3 | 1.2 | 1 | 05/05/20 13:00 | 05/06/20 14:01 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.0 | 0.58 | 1 | 05/18/20 09:57 | 05/18/20 13:01 | 24959-67-9 | |
| Chloride | **25.3** | mg/kg | 12.2 | 5.1 | 1 | 05/18/20 09:57 | 05/18/20 13:01 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.67 | 1 | 05/18/20 09:57 | 05/18/20 13:01 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 2.0 | 0.76 | 1 | 05/18/20 09:57 | 05/18/20 13:01 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.34 | 1 | 05/18/20 09:57 | 05/18/20 13:01 | 14797-65-0 | |
| Sulfate | **155** | mg/kg | 20.4 | 4.6 | 1 | 05/18/20 09:57 | 05/18/20 13:01 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **8.8** | % | | | 1 | | 05/13/20 11:31 | | |
| Total Organic Carbon | **6760** | mg/kg | 2960 | 731 | 1 | | 05/13/20 11:22 | 7440-44-0 | |
| Total Organic Carbon | **6180** | mg/kg | 2950 | 729 | 1 | | 05/13/20 11:31 | 7440-44-0 | |
| Mean Total Organic Carbon | **6470** | mg/kg | 2960 | 730 | 1 | | 05/13/20 11:31 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP16-SED-6-18-01-042720** **Lab ID: 10516320002** Collected: 04/27/20 14:30 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **18.6** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:24 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **4.6** | % | | | 1 | | 05/14/20 14:35 | | |
| Total Organic Carbon | **1200** | mg/kg | 604 | 149 | 1 | | 05/14/20 14:28 | 7440-44-0 | |
| Total Organic Carbon | **1260** | mg/kg | 601 | 148 | 1 | | 05/14/20 14:35 | 7440-44-0 | |
| Mean Total Organic Carbon | **1230** | mg/kg | 603 | 149 | 1 | | 05/14/20 14:35 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP16-SED-30-36-01-042720** **Lab ID: 10516320003** Collected: 04/27/20 14:45 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **17.7** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:22 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **6.9** | % | | | 1 | | 05/14/20 14:59 | | |
| Total Organic Carbon | **1500** | mg/kg | 749 | 185 | 1 | | 05/14/20 14:52 | 7440-44-0 | |
| Total Organic Carbon | **1610** | mg/kg | 749 | 185 | 1 | | 05/14/20 14:59 | 7440-44-0 | |
| Mean Total Organic Carbon | **1560** | mg/kg | 749 | 185 | 1 | | 05/14/20 14:59 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP20-SED-WET-0-6-01-042720** **Lab ID: 10516320004** Collected: 04/27/20 09:30 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **23.2** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:35 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **105** | mg/kg | 3.2 | 1.1 | 1 | 05/05/20 13:00 | 05/06/20 13:50 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.0 | 0.57 | 1 | 05/18/20 09:57 | 05/18/20 15:28 | 24959-67-9 | |
| Chloride | **33.8** | mg/kg | 12.1 | 5.0 | 1 | 05/18/20 09:57 | 05/18/20 15:28 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.66 | 1 | 05/18/20 09:57 | 05/18/20 15:28 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 2.0 | 0.75 | 1 | 05/18/20 09:57 | 05/18/20 15:28 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.34 | 1 | 05/18/20 09:57 | 05/18/20 15:28 | 14797-65-0 | |
| Sulfate | **247** | mg/kg | 20.1 | 4.5 | 1 | 05/18/20 09:57 | 05/18/20 15:28 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **9.7** | % | | | 1 | | 05/13/20 11:47 | | |
| Total Organic Carbon | **15900** | mg/kg | 11800 | 2910 | 1 | | 05/13/20 11:38 | 7440-44-0 | |
| Total Organic Carbon | **17500** | mg/kg | 11900 | 2920 | 1 | | 05/13/20 11:47 | 7440-44-0 | |
| Mean Total Organic Carbon | **16700** | mg/kg | 11800 | 2920 | 1 | | 05/13/20 11:47 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP20-SED-WET-6-12-01-042720** **Lab ID: 10516320005** Collected: 04/27/20 09:45 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **18.6** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:27 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **11.4** | % | | | 1 | | 05/14/20 15:22 | | |
| Total Organic Carbon | **8170** | mg/kg | 5980 | 1480 | 1 | | 05/14/20 15:15 | 7440-44-0 | |
| Total Organic Carbon | **9150** | mg/kg | 5930 | 1460 | 1 | | 05/14/20 15:22 | 7440-44-0 | |
| Mean Total Organic Carbon | **8660** | mg/kg | 5960 | 1470 | 1 | | 05/14/20 15:22 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP20-SED-24-30-01-042720** **Lab ID: 10516320006** Collected: 04/27/20 10:00 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **17.1** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:27 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **14.2** | % | | | 1 | | 05/14/20 15:45 | | |
| Total Organic Carbon | **9800** | mg/kg | 5930 | 1460 | 1 | | 05/14/20 15:38 | 7440-44-0 | |
| Total Organic Carbon | **8500** | mg/kg | 5870 | 1450 | 1 | | 05/14/20 15:45 | 7440-44-0 | |
| Mean Total Organic Carbon | **9150** | mg/kg | 5900 | 1460 | 1 | | 05/14/20 15:45 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP20-SED-36-42-01-042720** **Lab ID: 10516320007** Collected: 04/27/20 10:15 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **20.4** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:29 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **6.0** | % | | | 1 | | 05/14/20 16:09 | | |
| Total Organic Carbon | **2500** | mg/kg | 1490 | 366 | 1 | | 05/14/20 16:01 | 7440-44-0 | |
| Total Organic Carbon | **2350** | mg/kg | 1490 | 368 | 1 | | 05/14/20 16:09 | 7440-44-0 | |
| Mean Total Organic Carbon | **2430** | mg/kg | 1490 | 367 | 1 | | 05/14/20 16:09 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP23-SED-0-6-01-042720** **Lab ID: 10516320008** Collected: 04/27/20 12:30 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **11.2** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **16.0** | % | | | 1 | | 05/14/20 16:35 | | |
| Total Organic Carbon | **774** | mg/kg | 647 | 159 | 1 | | 05/14/20 16:25 | 7440-44-0 | |
| Total Organic Carbon | **659** | mg/kg | 651 | 161 | 1 | | 05/14/20 16:35 | 7440-44-0 | |
| Mean Total Organic Carbon | **716** | mg/kg | 649 | 160 | 1 | | 05/14/20 16:35 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: EP24-SED-0-6-01-042720** **Lab ID: 10516320009** Collected: 04/27/20 11:30 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **43.0** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:31 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **323** | mg/kg | 4.4 | 1.6 | 1 | 05/05/20 13:00 | 05/06/20 13:52 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 1.9 | 0.54 | 1 | 05/18/20 09:57 | 05/18/20 13:22 | 24959-67-9 | |
| Chloride | **12.9** | mg/kg | 11.5 | 4.8 | 1 | 05/18/20 09:57 | 05/18/20 13:22 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.4 | 0.63 | 1 | 05/18/20 09:57 | 05/18/20 13:22 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 1.9 | 0.72 | 1 | 05/18/20 09:57 | 05/18/20 13:22 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 1.9 | 0.32 | 1 | 05/18/20 09:57 | 05/18/20 13:22 | 14797-65-0 | |
| Sulfate | **250** | mg/kg | 19.2 | 4.3 | 1 | 05/18/20 09:57 | 05/18/20 13:22 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **50.2** | % | | | 1 | | 05/14/20 09:32 | | R2 |
| Total Organic Carbon | **14900** | mg/kg | 11800 | 2910 | 1 | | 05/14/20 09:25 | 7440-44-0 | |
| Total Organic Carbon | ND | mg/kg | 11900 | 2930 | 1 | | 05/14/20 09:32 | 7440-44-0 | |
| Mean Total Organic Carbon | **11900** | mg/kg | 11800 | 2920 | 1 | | 05/14/20 09:32 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: BP1-SED-0-6-01-042720** **Lab ID: 10516320010** Collected: 04/27/20 11:00 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **23.7** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:12 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **106** | mg/kg | 3.3 | 1.2 | 1 | 05/05/20 13:00 | 05/06/20 13:51 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 1.9 | 0.55 | 1 | 05/18/20 09:57 | 05/18/20 14:04 | 24959-67-9 | |
| Chloride | ND | mg/kg | 11.7 | 4.9 | 1 | 05/18/20 09:57 | 05/18/20 14:04 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.64 | 1 | 05/18/20 09:57 | 05/18/20 14:04 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 1.9 | 0.73 | 1 | 05/18/20 09:57 | 05/18/20 14:04 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 1.9 | 0.32 | 1 | 05/18/20 09:57 | 05/18/20 14:04 | 14797-65-0 | |
| Sulfate | **71.5** | mg/kg | 19.5 | 4.4 | 1 | 05/18/20 09:57 | 05/18/20 14:04 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **23.8** | % | | | 1 | | 05/15/20 09:38 | | |
| Total Organic Carbon | **20900** | mg/kg | 11700 | 2890 | 1 | | 05/15/20 09:30 | 7440-44-0 | |
| Total Organic Carbon | **16500** | mg/kg | 11600 | 2850 | 1 | | 05/15/20 09:38 | 7440-44-0 | |
| Mean Total Organic Carbon | **18700** | mg/kg | 11600 | 2870 | 1 | | 05/15/20 09:38 | 7440-44-0 | |



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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: VB1-SED-COMP-0-6-01-042720** **Lab ID: 10516320011** Collected: 04/27/20 12:00 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **29.0** | % | 0.10 | 0.10 | 1 | | 05/15/20 16:50 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **543** | mg/kg | 14.4 | 5.2 | 4 | 05/05/20 13:00 | 05/06/20 14:04 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.0 | 0.58 | 1 | 05/18/20 09:57 | 05/18/20 11:58 | 24959-67-9 | |
| Chloride | **27.1** | mg/kg | 12.3 | 5.1 | 1 | 05/18/20 09:57 | 05/18/20 11:58 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.67 | 1 | 05/18/20 09:57 | 05/18/20 11:58 | 16984-48-8 | M1 |
| Nitrate as N | ND | mg/kg | 2.0 | 0.77 | 1 | 05/18/20 09:57 | 05/18/20 11:58 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.34 | 1 | 05/18/20 09:57 | 05/18/20 11:58 | 14797-65-0 | |
| Sulfate | **805** | mg/kg | 20.5 | 4.6 | 1 | 05/18/20 09:57 | 05/18/20 11:58 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **17.3** | % | | | 1 | | 05/15/20 10:00 | | |
| Total Organic Carbon | **16700** | mg/kg | 11900 | 2920 | 1 | | 05/15/20 09:53 | 7440-44-0 | |
| Total Organic Carbon | **14000** | mg/kg | 11900 | 2940 | 1 | | 05/15/20 10:00 | 7440-44-0 | |
| Mean Total Organic Carbon | **15400** | mg/kg | 11900 | 2930 | 1 | | 05/15/20 10:00 | 7440-44-0 | |



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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10516320

**Sample: VB3-SED-COMP-0-6-01-042720** **Lab ID: 10516320012** Collected: 04/27/20 12:30 Received: 04/29/20 18:36 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **24.6** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:12 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **164** | mg/kg | 3.2 | 1.2 | 1 | 05/05/20 13:00 | 05/06/20 13:58 | 7723-14-0 | M1 |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.0 | 0.57 | 1 | 05/18/20 09:57 | 05/18/20 17:13 | 24959-67-9 | |
| Chloride | **13.9** | mg/kg | 12.0 | 5.0 | 1 | 05/18/20 09:57 | 05/18/20 17:13 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.66 | 1 | 05/18/20 09:57 | 05/18/20 17:13 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 2.0 | 0.75 | 1 | 05/18/20 09:57 | 05/18/20 17:13 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.33 | 1 | 05/18/20 09:57 | 05/18/20 17:13 | 14797-65-0 | |
| Sulfate | **61.6** | mg/kg | 20.1 | 4.5 | 1 | 05/18/20 09:57 | 05/18/20 17:13 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **26.9** | % | | | 1 | | 05/15/20 10:22 | | |
| Total Organic Carbon | **13500** | mg/kg | 11600 | 2860 | 1 | | 05/15/20 10:15 | 7440-44-0 | |
| Total Organic Carbon | ND | mg/kg | 11700 | 2890 | 1 | | 05/15/20 10:22 | 7440-44-0 | |
| Mean Total Organic Carbon | **11900** | mg/kg | 11700 | 2870 | 1 | | 05/15/20 10:22 | 7440-44-0 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

QC Batch: 189226
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516320001, 10516320002, 10516320003, 10516320004, 10516320005, 10516320006, 10516320007, 10516320008, 10516320009

SAMPLE DUPLICATE: 744741

| Parameter | Units | 10516160022 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 14.7 | 13.2 | 11 | 5 | D6 |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

QC Batch: 189227
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia

Associated Lab Samples: 10516320011

SAMPLE DUPLICATE: 744749

| Parameter | Units | 10516160006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 14.8 | 14.5 | 2 | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

QC Batch: 189302
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516320010, 10516320012

SAMPLE DUPLICATE: 744998

| Parameter | Units | 10518018004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 12.8 | 11.7 | 8 | 5 | D6 |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

QC Batch: 188405 | Analysis Method: EPA 365.1
QC Batch Method: SM 4500P B | Analysis Description: 365.1 Phosphorus, Total
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516320001, 10516320004, 10516320009, 10516320010, 10516320011, 10516320012

METHOD BLANK: 741593 Matrix: Solid
Associated Lab Samples: 10516320001, 10516320004, 10516320009, 10516320010, 10516320011, 10516320012

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.5 | 0.91 | 05/06/20 13:36 | |

LABORATORY CONTROL SAMPLE: 741592

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 24.5 | 24.8 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741594 741595

| Parameter | Units | 10516160001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 204 | 39.2 | 39.5 | 201 | 252 | -9 | 120 | 80-120 | 23 | 20 | M1,R1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741596 741597

| Parameter | Units | 10516320012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 164 | 32.5 | 33.2 | 214 | 194 | 155 | 92 | 80-120 | 10 | 20 | M1 |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

QC Batch: 189264
QC Batch Method: EPA 300.0
Analysis Method: EPA 9056A
Analysis Description: 9056 IC Anions, Soil
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516320001, 10516320004, 10516320009, 10516320010, 10516320011, 10516320012

METHOD BLANK: 744872 Matrix: Solid
Associated Lab Samples: 10516320001, 10516320004, 10516320009, 10516320010, 10516320011, 10516320012

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 2.0 | 0.56 | 05/18/20 11:37 | |
| Chloride | mg/kg | ND | 11.9 | 5.0 | 05/18/20 11:37 | |
| Fluoride | mg/kg | ND | 1.5 | 0.65 | 05/18/20 11:37 | |
| Nitrate as N | mg/kg | ND | 2.0 | 0.74 | 05/18/20 11:37 | |
| Nitrite as N | mg/kg | ND | 2.0 | 0.33 | 05/18/20 11:37 | |
| Sulfate | mg/kg | ND | 19.9 | 4.5 | 05/18/20 11:37 | |

LABORATORY CONTROL SAMPLE: 744871

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | 50 | 49.1 | 98 | 80-120 | |
| Chloride | mg/kg | 500 | 516 | 103 | 80-120 | |
| Fluoride | mg/kg | 50 | 50.7 | 101 | 80-120 | |
| Nitrate as N | mg/kg | 50 | 51.1 | 102 | 80-120 | |
| Nitrite as N | mg/kg | 50 | 52.8 | 106 | 80-120 | |
| Sulfate | mg/kg | 500 | 520 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744873 744874

| Parameter | Units | 10516320011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 50 | 48.5 | 50.8 | 49.7 | 100 | 100 | 80-120 | 2 | 20 | |
| Chloride | mg/kg | 27.1 | 500 | 485 | 547 | 530 | 104 | 104 | 80-120 | 3 | 20 | |
| Fluoride | mg/kg | ND | 50 | 48.5 | 61.1 | 59.8 | 122 | 123 | 80-120 | 2 | 20 | M1 |
| Nitrate as N | mg/kg | ND | 50 | 48.5 | 52.8 | 51.3 | 104 | 103 | 80-120 | 3 | 20 | |
| Nitrite as N | mg/kg | ND | 50 | 48.5 | 51.1 | 50.0 | 101 | 102 | 80-120 | 2 | 20 | |
| Sulfate | mg/kg | 805 | 500 | 485 | 1290 | 1250 | 98 | 91 | 80-120 | 4 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744875 744876

| Parameter | Units | 10516320004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 50 | 49.8 | 50.5 | 51.0 | 99 | 101 | 80-120 | 1 | 20 | |
| Chloride | mg/kg | 33.8 | 500 | 498 | 556 | 557 | 104 | 105 | 80-120 | 0 | 20 | |
| Fluoride | mg/kg | ND | 50 | 49.8 | 54.0 | 53.7 | 108 | 108 | 80-120 | 0 | 20 | |
| Nitrate as N | mg/kg | ND | 50 | 49.8 | 52.0 | 52.6 | 102 | 104 | 80-120 | 1 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744875 744876

| Parameter | Units | 10516320004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrite as N | mg/kg | ND | 50 | 49.8 | 53.4 | 53.1 | 106 | 105 | 80-120 | 1 | 20 | |
| Sulfate | mg/kg | 247 | 500 | 498 | 777 | 771 | 106 | 105 | 80-120 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

QC Batch: 188852 — Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A — Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516320001, 10516320002, 10516320003, 10516320004, 10516320005, 10516320006, 10516320007, 10516320008, 10516320009

METHOD BLANK: 743239 — Matrix: Solid
Associated Lab Samples: 10516320001, 10516320002, 10516320003, 10516320004, 10516320005, 10516320006, 10516320007, 10516320008, 10516320009

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 655 | 162 | 05/13/20 08:57 | |

LABORATORY CONTROL SAMPLE: 743240

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 2770 | 85 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 743241 743242

| Parameter | Units | 10516160001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 19100 | 117000 | 118000 | 133000 | 137000 | 97 | 101 | 70-130 | 4 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 743243 743244

| Parameter | Units | 10516160027 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 6670 | 55900 | 56000 | 60500 | 60900 | 96 | 97 | 70-130 | 1 | 25 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10516320

QC Batch: 189084
QC Batch Method: EPA 9060A
Analysis Method: EPA 9060A
Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10516320010, 10516320011, 10516320012

METHOD BLANK: 744253 Matrix: Solid
Associated Lab Samples: 10516320010, 10516320011, 10516320012

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 606 | 149 | 05/15/20 09:01 | |

LABORATORY CONTROL SAMPLE: 744254

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 3110 | 95 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744255 744256

| Parameter | Units | 10517015003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 6900 | 11900 | 11900 | 18200 | 17700 | 94 | 91 | 70-130 | 3 | 25 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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# QUALIFIERS

Project: 60618753 P1007
Pace Project No.: 10516320

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| R1 | RPD value was outside control limits. |
| R2 | RPD value was outside control limits due to matrix interference |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 P1007
Pace Project No.: 10516320

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 10516320001 | EP16-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320002 | EP16-SED-6-18-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320003 | EP16-SED-30-36-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320004 | EP20-SED-WET-0-6-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320005 | EP20-SED-WET-6-12-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320006 | EP20-SED-24-30-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320007 | EP20-SED-36-42-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320008 | EP23-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320009 | EP24-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | 189226 | | |
| 10516320010 | BP1-SED-0-6-01-042720 | ASTM D 2974-13 (2013) | 189302 | | |
| 10516320011 | VB1-SED-COMP-0-6-01-042720 | ASTM D 2974-13 (2013) | 189227 | | |
| 10516320012 | VB3-SED-COMP-0-6-01-042720 | ASTM D 2974-13 (2013) | 189302 | | |
| 10516320001 | EP16-SED-0-6-01-042720 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516320004 | EP20-SED-WET-0-6-01-042720 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516320009 | EP24-SED-0-6-01-042720 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516320010 | BP1-SED-0-6-01-042720 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516320011 | VB1-SED-COMP-0-6-01-042720 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516320012 | VB3-SED-COMP-0-6-01-042720 | SM 4500P B | 188405 | EPA 365.1 | 188458 |
| 10516320001 | EP16-SED-0-6-01-042720 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516320004 | EP20-SED-WET-0-6-01-042720 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516320009 | EP24-SED-0-6-01-042720 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516320010 | BP1-SED-0-6-01-042720 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516320011 | VB1-SED-COMP-0-6-01-042720 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516320012 | VB3-SED-COMP-0-6-01-042720 | EPA 300.0 | 189264 | EPA 9056A | 189270 |
| 10516320001 | EP16-SED-0-6-01-042720 | EPA 9060A | 188852 | | |
| 10516320001 | EP16-SED-0-6-01-042720 | EPA 9060A | 189019 | | |
| 10516320002 | EP16-SED-6-18-01-042720 | EPA 9060A | 188852 | | |
| 10516320002 | EP16-SED-6-18-01-042720 | EPA 9060A | 189019 | | |
| 10516320003 | EP16-SED-30-36-01-042720 | EPA 9060A | 188852 | | |
| 10516320003 | EP16-SED-30-36-01-042720 | EPA 9060A | 189019 | | |
| 10516320004 | EP20-SED-WET-0-6-01-042720 | EPA 9060A | 188852 | | |
| 10516320004 | EP20-SED-WET-0-6-01-042720 | EPA 9060A | 189019 | | |
| 10516320005 | EP20-SED-WET-6-12-01-042720 | EPA 9060A | 188852 | | |
| 10516320005 | EP20-SED-WET-6-12-01-042720 | EPA 9060A | 189019 | | |
| 10516320006 | EP20-SED-24-30-01-042720 | EPA 9060A | 188852 | | |
| 10516320006 | EP20-SED-24-30-01-042720 | EPA 9060A | 189019 | | |
| 10516320007 | EP20-SED-36-42-01-042720 | EPA 9060A | 188852 | | |
| 10516320007 | EP20-SED-36-42-01-042720 | EPA 9060A | 189019 | | |
| 10516320008 | EP23-SED-0-6-01-042720 | EPA 9060A | 188852 | | |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 P1007
Pace Project No.: 10516320

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10516320008** | **EP23-SED-0-6-01-042720** | EPA 9060A | 189019 | | |
| **10516320009** | **EP24-SED-0-6-01-042720** | EPA 9060A | 188852 | | |
| **10516320009** | **EP24-SED-0-6-01-042720** | EPA 9060A | 189019 | | |
| **10516320010** | **BP1-SED-0-6-01-042720** | EPA 9060A | 189084 | | |
| **10516320010** | **BP1-SED-0-6-01-042720** | EPA 9060A | 189085 | | |
| **10516320011** | **VB1-SED-COMP-0-6-01-042720** | EPA 9060A | 189084 | | |
| **10516320011** | **VB1-SED-COMP-0-6-01-042720** | EPA 9060A | 189085 | | |
| **10516320012** | **VB3-SED-COMP-0-6-01-042720** | EPA 9060A | 189084 | | |
| **10516320012** | **VB3-SED-COMP-0-6-01-042720** | EPA 9060A | 189085 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2307679

**Section A** Required Client Information:

| | |
|---|---|
| Company: | AECOM |
| Address: | 800 LaSalle Ave S Ste 1100, Minneapolis 55402 |
| Email To: | andrew.tarara@aecom.com |
| Phone: | Fax: |
| Requested Due Date/TAT: | |

**Section B** Required Project Information:

| | |
|---|---|
| Report To: | " |
| Copy To: | amanda.lanning@aecom.com |
| Purchase Order No.: | |
| Project Name: | P1007 |
| Project Number: | 60618753 |

**Section C** Invoice Information:

| | |
|---|---|
| Attention: | " |
| Company Name: | |
| Address: | |
| Pace Quote Reference: | |
| Pace Project Manager: | |
| Pace Profile #: | |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

**Section D** Required Client Information

**SAMPLE ID** (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

WO#: 10516320

10516320

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | TOC | Anions + Phosp. | Res | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EP16-SED-0-6-01-042720 | S | G | 4/27/20 | 1400 | | | | 2 | X | | | | | | | | | X | X | | 01 |
| 2 | EP16-SED-6-18-01-042720 | \| | \| | \| | 1430 | | | | 1 | X | | | | | | | | | X | | | 2 |
| 3 | EP16-SED-30-36-01-042720 | \| | \| | \| | 1445 | | | | 1 | X | | | | | | | | | X | | | 3 |
| 4 | EP20-SED-WET-0-6-01-042720 | \| | \| | \| | 0930 | | | | 2 | X | | | | | | | | | X | X | | 4 |
| 5 | EP20-SED-WET-6-12-01-042720 | \| | \| | \| | 0945 | | | | 1 | X | | | | | | | | | X | | | 5 |
| 6 | EP20-SED-24-30-01-042720 | \| | \| | \| | 1000 | | | | 1 | X | | | | | | | | | X | | | 6 |
| 7 | EP20-SED-36-42-01-042720 | \| | \| | \| | 1015 | | | | 1 | X | | | | | | | | | X | | | 7 |
| 8 | EP23-SED-0-6-01-042720 | \| | \| | \| | 1230 | | | | 1 | X | | | | | | | | | X | | | 8 |
| 9 | EP24-SED-0-6-01-042720 | \| | \| | \| | 1130 | | | | 2 | X | | | | | | | | | X | X | | 9 |
| 10 | BP1-SED-0-6-01-042720 | \| | \| | \| | 1100 | | | | 2 | X | | | | | | | | | X | X | | 10 |
| 11 | VB1-SED-COMP-0-6-01-042720 | \| | \| | \| | 1200 | | | | 2 | X | | | | | | | | | X | X | | 11 |
| 12 | VB3-SED-COMP-0-6-01-042720 | ↓ | ↓ | ↓ | 1230 | | | | 2 | X | | | | | | | | | X | X | | 12 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Amanda Lanning / AECOM | 4/28/20 | 1800 | [signature] | 4/29/20 | 1836 | 5.4 | Y | N | Y |
| | Alex Senyem / AECOM | 4/29/20 | 1834 | | | | | | | |

ORIGINAL

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/28/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt (SCUR) - MN** | Document Revised: 27Mar2020 **Page 1 of 1** |
|---|---|---|
| | Document No.: **ENV-FRM-MIN4-0150 Rev.00** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt**

**Client Name:** AECOM

**Project #:** WO#: 10516320

PM: TS1 Due Date: 05/14/20

CLIENT: AECOM

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

**Tracking Number:** _____

**Custody Seal on Cooler/Box Present?** ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

**Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

**Thermometer:** ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

**Did Samples Originate in West Virginia?** ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 5.5 °C

**Average Corrected Temp (no temp blank only):** ☐ See Exceptions _____ °C ☐ 1 Container

**Correction Factor:** -0.1 **Cooler Temp Corrected w/temp blank:** 5.4 °C

**USDA Regulated Soil:** ( ☐ N/A, water sample/Other: _____ )

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

**Date/Initials of Person Examining Contents:** GN2 4/29/2020

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | **COMMENTS:** |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☒ Yes | ☐ No | | 1. |
| Chain of Custody Relinquished? | ☒ Yes | ☐ No | | 2. |
| Sampler Name and/or Signature on COC? | ☒ Yes | ☐ No | ☐ N/A | 3. |
| Samples Arrived within Hold Time? | ☒ Yes | ☐ No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☒ No | | 5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____ |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☒ No | | 6. |
| Sufficient Volume? | ☒ Yes | ☐ No | | 7. |
| Correct Containers Used? | ☒ Yes | ☐ No | | 8. |
| -Pace Containers Used? | ☒ Yes | ☐ No | | |
| Containers Intact? | ☒ Yes | ☐ No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☒ N/A | 10. Is sediment visible in the dissolved container? ☐ Yes ☐ No |
| Is sufficient information available to reconcile the samples to the COC? | ☒ Yes | ☐ No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____ | | | | |
| All containers needing acid/base preservation have been checked? | ☐ Yes | ☐ No | ☒ N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☐ Yes | ☐ No | ☒ N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☐ Yes | ☐ No | ☒ N/A | Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☐ Yes | ☐ No | ☒ N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐ Yes | ☐ No | ☒ N/A | |
| Trip Blank Present? | ☐ Yes | ☐ No | ☒ N/A | 14. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☒ N/A | Pace Trip Blank Lot # (if purchased): _____ |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

**Project Manager Review:** Tina Soltani **Date:** 4/30/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Labeled by: _____

# Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN

Cert. Needed: ☒ Yes ☐ No

Workorder: 10516320 Workorder Name: 60618753 P1007

Owner Received Date: 4/29/2020 Results Requested By: 5/14/2020

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: Unp-J3GU/JGFU | Anions by 300.0/9056A*** | TOC by 9060A | Total Phosphorus by 365.1 | Dry weight | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EP16-SED-0-6-01-042720 | PS | 4/27/2020 14:00 | 10516320001 | Solid | 2 | X | X | X | X | |
| 2 | EP16-SED-6-18-01-042720 | PS | 4/27/2020 14:30 | 10516320002 | Solid | 1 | | X | | | |
| 3 | EP16-SED-30-36-01-042720 | PS | 4/27/2020 14:45 | 10516320003 | Solid | 1 | | X | | | |
| 4 | EP20-SED-WET-0-6-01-042720 | PS | 4/27/2020 09:30 | 10516320004 | Solid | 2 | X | X | X | | |
| 5 | EP20-SED-WET-6-12-01-042720 | PS | 4/27/2020 09:45 | 10516320005 | Solid | 1 | | X | | | |
| 6 | EP20-SED-24-30-01-042720 | PS | 4/27/2020 10:00 | 10516320006 | Solid | 1 | | X | | | |
| 7 | EP20-SED-36-42-01-042720 | PS | 4/27/2020 10:15 | 10516320007 | Solid | 1 | | X | | | |
| 8 | EP23-SED-0-6-01-042720 | PS | 4/27/2020 12:30 | 10516320008 | Solid | 1 | | X | | | |
| 9 | EP24-SED-0-6-01-042720 | PS | 4/27/2020 11:30 | 10516320009 | Solid | 2 | X | X | X | | |
| 10 | BP1-SED-0-6-01-042720 | PS | 4/27/2020 11:00 | 10516320010 | Solid | 2 | X | X | X | | |
| 11 | VB1-SED-COMP-0-6-01-042720 | PS | 4/27/2020 12:00 | 10516320011 | Solid | 2 | X | X | X | | |
| 12 | VB3-SED-COMP-0-6-01-042720 | PS | 4/27/2020 12:30 | 10516320012 | Solid | 2 | X | X | X | ↓ | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | [illegible] Pace | 4/30/20 1600 | R C | 4/30/20 1830 |
| 2 | R C 4/30/20 | 2245 | B Mathews | 5/4/20 0700 |
| 3 | | | | |

Comments

*** - bromide, chloride, fluoride, nitrate, nitrite, sulfate

Cooler Temperature on Receipt 1.1 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*

*This chain of custody is considered complete as is since this information is available in the owner laboratory.*

| Pace Analytical | Document Name: Sample Condition Upon Receipt Form | Document Revised: 25Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: F-VM-C-001-rev.14 | Issuing Authority: Pace Virginia Minnesota Quality Office |

**Sample Condition Upon Receipt**

WO#: 12143461

Client Name: Pace MN

Project #:

PM: CLJ Due Date: 05/14/20

CLIENT: PACE MPLS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 140792808 Type of Ice: ☐ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read °C: 0.8 Cooler Temp Corrected °C: 1.1 Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6 °C Correction Factor: 0.3 Date and Initials of Person Examining Contents: 4/30/20 DL

Comments: BM 5/4/20

| | | | | |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Chain of Custody Filled Out? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Sampler Name and Signature on COC? | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☑ No | ☐ N/A | 6. |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | ☐ N/A | 7. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 8. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved containers. |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL | ☑ Yes | ☐ No | ☐ N/A | 12. |
| All containers needing acid/base preservation properly preserved? | ☐ Yes | ☐ No | ☑ N/A | 13. Note samples needing adjustment: |
| Headspace in Methyl Mercury Container | ☐ Yes | ☐ No | ☑ N/A | 14. |
| Headspace in VOA Vials ( >6mm)? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if purchased): | | | | |

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

**Project Manager Review:** Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
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(612)607-1700

May 29, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60618753 MPCA P1007
Pace Project No.: 10517015

Dear Andrew Tarara:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Virginia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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## CERTIFICATIONS

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

**Pace Analytical Services Virginia Minnesota**
315 Chestnut Street, Virginia, MN 55792
Montana Certificate #CERT0103
Alaska Certification UST-107
Minnesota Dept of Health Certification #: 027-137-445
North Dakota Certification: # R-203
Wisconsin DNR Certification # : 998027470
WA Department of Ecology Lab ID# C1007

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | Solid | 04/30/20 11:30 | 05/06/20 16:30 |
| **10517015002** | **RC16A-SED-WET-6-12-01-043020** | Solid | 04/30/20 12:00 | 05/06/20 16:30 |
| **10517015003** | **EP21-SED-BEACH-FOAM-01-050520** | Solid | 05/05/20 15:30 | 05/06/20 16:30 |



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## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 365.1 | DMB | 1 | PASI-V |
| | | EPA 9056A | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| **10517015002** | **RC16A-SED-WET-6-12-01-043020** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |
| **10517015003** | **EP21-SED-BEACH-FOAM-01-050520** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | BE1 | 4 | PASI-V |

PASI-V = Pace Analytical Services - Virginia



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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 42.4 | % | 0.10 | 05/18/20 14:35 | |
| EPA 365.1 | Phosphorus | 502 | mg/kg | 17.2 | 05/14/20 09:58 | |
| EPA 9060A | RPD% | 46.8 | % | | 05/15/20 11:08 | R2 |
| EPA 9060A | Total Organic Carbon | 27400 | mg/kg | 11800 | 05/15/20 11:01 | |
| EPA 9060A | Total Organic Carbon | 17000 | mg/kg | 11800 | 05/15/20 11:08 | |
| EPA 9060A | Mean Total Organic Carbon | 22200 | mg/kg | 11800 | 05/15/20 11:08 | |
| **10517015002** | **RC16A-SED-WET-6-12-01-043020** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 36.2 | % | 0.10 | 05/18/20 14:12 | |
| EPA 9060A | RPD% | 3.1 | % | | 05/15/20 11:31 | |
| EPA 9060A | Total Organic Carbon | 27700 | mg/kg | 11900 | 05/15/20 11:23 | |
| EPA 9060A | Total Organic Carbon | 26900 | mg/kg | 11800 | 05/15/20 11:31 | |
| EPA 9060A | Mean Total Organic Carbon | 27300 | mg/kg | 11900 | 05/15/20 11:31 | |
| **10517015003** | **EP21-SED-BEACH-FOAM-01-050520** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 18.4 | % | 0.10 | 05/18/20 14:12 | |
| EPA 9060A | RPD% | 7.3 | % | | 05/15/20 14:21 | |
| EPA 9060A | Total Organic Carbon | 7150 | mg/kg | 1200 | 05/15/20 13:29 | |
| EPA 9060A | Total Organic Carbon | 6650 | mg/kg | 1190 | 05/15/20 14:21 | |
| EPA 9060A | Mean Total Organic Carbon | 6900 | mg/kg | 1200 | 05/15/20 14:21 | |



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

**Method:** **EPA 365.1**
**Description:** 365.1 Phosphorus, Total
**Client:** AECOM MN ND
**Date:** May 29, 2020

**General Information:**
1 sample was analyzed for EPA 365.1 by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM 4500P B with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 188972

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 12143661001,12143661002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 743798)
  - Phosphorus
- MS (Lab ID: 743800)
  - Phosphorus
- MSD (Lab ID: 743799)
  - Phosphorus
- MSD (Lab ID: 743801)
  - Phosphorus

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

**Method:** **EPA 9056A**
**Description:** 9056 IC Anions
**Client:** AECOM MN ND
**Date:** May 29, 2020

**General Information:**
1 sample was analyzed for EPA 9056A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 300.0 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

**Method:** **EPA 9060A**
**Description:** Total Organic Carbon
**Client:** AECOM MN ND
**Date:** May 29, 2020

**General Information:**
3 samples were analyzed for EPA 9060A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

**Sample: RC16A-SED-WET-0-6-01-043020** **Lab ID: 10517015001** Collected: 04/30/20 11:30 Received: 05/06/20 16:30 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **42.4** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:35 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 Preparation Method: SM 4500P B Pace Analytical Services - Virginia | | | | | | | | |
| Phosphorus | **502** | mg/kg | 17.2 | 6.2 | 4 | 05/13/20 14:53 | 05/14/20 09:58 | 7723-14-0 | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.34 | 1 | 05/19/20 10:38 | 05/19/20 14:12 | 14797-65-0 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **46.8** | % | | | 1 | | 05/15/20 11:08 | | R2 |
| Total Organic Carbon | **27400** | mg/kg | 11800 | 2920 | 1 | | 05/15/20 11:01 | 7440-44-0 | |
| Total Organic Carbon | **17000** | mg/kg | 11800 | 2920 | 1 | | 05/15/20 11:08 | 7440-44-0 | |
| Mean Total Organic Carbon | **22200** | mg/kg | 11800 | 2920 | 1 | | 05/15/20 11:08 | 7440-44-0 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

**Sample: RC16A-SED-WET-6-12-01-043020** **Lab ID: 10517015002** Collected: 04/30/20 12:00 Received: 05/06/20 16:30 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **36.2** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:12 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **3.1** | % | | | 1 | | 05/15/20 11:31 | | |
| Total Organic Carbon | **27700** | mg/kg | 11900 | 2930 | 1 | | 05/15/20 11:23 | 7440-44-0 | |
| Total Organic Carbon | **26900** | mg/kg | 11800 | 2920 | 1 | | 05/15/20 11:31 | 7440-44-0 | |
| Mean Total Organic Carbon | **27300** | mg/kg | 11900 | 2920 | 1 | | 05/15/20 11:31 | 7440-44-0 | |



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

**Sample: EP21-SED-BEACH-FOAM-01-050520** **Lab ID: 10517015003** Collected: 05/05/20 15:30 Received: 05/06/20 16:30 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **18.4** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:12 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **7.3** | % | | | 1 | | 05/15/20 14:21 | | |
| Total Organic Carbon | **7150** | mg/kg | 1200 | 295 | 1 | | 05/15/20 13:29 | 7440-44-0 | |
| Total Organic Carbon | **6650** | mg/kg | 1190 | 295 | 1 | | 05/15/20 14:21 | 7440-44-0 | |
| Mean Total Organic Carbon | **6900** | mg/kg | 1200 | 295 | 1 | | 05/15/20 14:21 | 7440-44-0 | |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

QC Batch: 189302
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia

Associated Lab Samples: 10517015002, 10517015003

SAMPLE DUPLICATE: 744998

| Parameter | Units | 10518018004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 12.8 | 11.7 | 8 | 5 | D6 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

QC Batch: 189303
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia

Associated Lab Samples: 10517015001

SAMPLE DUPLICATE: 744999

| Parameter | Units | 10517718006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 40.4 | 42.9 | 6 | 5 | D6 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

QC Batch: 188972
QC Batch Method: SM 4500P B
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10517015001

METHOD BLANK: 743797 Matrix: Solid
Associated Lab Samples: 10517015001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.4 | 0.86 | 05/14/20 09:22 | |

LABORATORY CONTROL SAMPLE: 743796

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 24.8 | 25.0 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 743798 743799

| Parameter | Units | 12143661001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 113 | 23.6 | 23.6 | 121 | 110 | 36 | -14 | 80-120 | 10 | 20 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 743800 743801

| Parameter | Units | 12143661002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 164 | 24.8 | 24.3 | 106 | 104 | -234 | -247 | 80-120 | 2 | 20 | M1 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

QC Batch: 189353
QC Batch Method: EPA 300.0
Analysis Method: EPA 9056A
Analysis Description: 9056 IC Anions, Soil
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10517015001

METHOD BLANK: 745142 Matrix: Solid
Associated Lab Samples: 10517015001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrite as N | mg/kg | ND | 2.0 | 0.33 | 05/19/20 11:24 | |

LABORATORY CONTROL SAMPLE: 745141

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrite as N | mg/kg | 50.7 | 53.2 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 745143 745144

| Parameter | Units | 10515302010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrite as N | mg/kg | 0.50J | 50.7 | 47.9 | 54.2 | 51.0 | 106 | 105 | 80-120 | 6 | 20 | H3 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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(612)607-1700

# QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

QC Batch: 189084 | Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A | Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10517015001, 10517015002, 10517015003

METHOD BLANK: 744253 Matrix: Solid
Associated Lab Samples: 10517015001, 10517015002, 10517015003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 606 | 149 | 05/15/20 09:01 | |

LABORATORY CONTROL SAMPLE: 744254

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 3110 | 95 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 744255 744256

| Parameter | Units | 10517015003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 6900 | 11900 | 11900 | 18200 | 17700 | 94 | 91 | 70-130 | 3 | 25 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| H3 | Sample was received or analysis requested beyond the recognized method holding time. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| R2 | RPD value was outside control limits due to matrix interference |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007
Pace Project No.: 10517015

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | ASTM D 2974-13 (2013) | 189303 | | |
| **10517015002** | **RC16A-SED-WET-6-12-01-043020** | ASTM D 2974-13 (2013) | 189302 | | |
| **10517015003** | **EP21-SED-BEACH-FOAM-01-050520** | ASTM D 2974-13 (2013) | 189302 | | |
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | SM 4500P B | 188972 | EPA 365.1 | 189052 |
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | EPA 300.0 | 189353 | EPA 9056A | 189358 |
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | EPA 9060A | 189084 | | |
| **10517015001** | **RC16A-SED-WET-0-6-01-043020** | EPA 9060A | 189085 | | |
| **10517015002** | **RC16A-SED-WET-6-12-01-043020** | EPA 9060A | 189084 | | |
| **10517015002** | **RC16A-SED-WET-6-12-01-043020** | EPA 9060A | 189085 | | |
| **10517015003** | **EP21-SED-BEACH-FOAM-01-050520** | EPA 9060A | 189084 | | |
| **10517015003** | **EP21-SED-BEACH-FOAM-01-050520** | EPA 9060A | 189085 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | AECOM | Report To: | Andrew Tarara | Attention: | USAPImaging@aecom.com |
| Address: | 800 LaSalle Ave, Suite 1100 | Copy To: | Amanda Lanning | Company Name: | AECOM |
| | Minneapolis, MN 55402 | | | Address: | |
| Email To: | andrew.tarara@aecom.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 612-376-2452 Fax: | Project Name: | MPCA P1007 | Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Requested Due Date/TAT: | 10-day Standard | Project Number: | 60618753 | Pace Profile #: | 22815 |

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Valid Matrix Codes

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | Total Metals* | Anions by 300.0** | Total Phosphorus | TOC | Dry weight | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RIVBA-SED-WET-04-01-043020 | SL | G | 4/30/20 | 1450 | | 1130 | | 2 | X | | | | | | | | | X | X | X | X | | 001 |
| 2 | RIVBA-SED-WET-04-02-043020 | SL | G | 4/30/20 | 1200 | | | | 1 | X | | | | | | | | | | | | X | | 002 |
| 3 | ~~RIVBA-SED-WET-04-03-043020~~ | SL | G | ~~4/30/20~~ | ~~1330~~ | | | | 1 | X | | | | | | | | | | | | X | | |
| 4 | ~~RIVBA-SED-WET-04-04-043020~~ | SL | G | ~~4/30/20~~ | ~~1430~~ | | | | 1 | X | | | | | | | | | | | | X | | |
| 5 | EP21-SED-BEACH-FOAM-01-050520 | SL | G | 5/5/20 | 1530 | | | | 1 | X | | | | | | | | | | | | | | 003 |
| 6 | | SL | G | | | | | | | | | | | | | | | | | | | | | |
| 7 | | SL | G | | | | | | | | | | | | | | | | | | | | | |
| 8 | | SL | G | | | | | | | | | | | | | | | | | | | | | |
| 9 | | SL | G | | | | | | | | | | | | | | | | | | | | | |
| 10 | | SL | G | | | | | | | | | | | | | | | | | | | | | |
| 11 | | SL | G | | | | | | | | | | | | | | | | | | | | | |
| 12 | | SL | G | | | | | | | | | | | | | | | | | | | | | |

WO#: 10517015

10517015

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| * - Ca, Fe, Mg, K, Na, Zn | Amanda Lanning/AECOM | 4/30/20 | 1700 | [illegible] D/Pace | 5/6/20 | 1638 | 11.4 | Y | N | Y |
| ** - bromide, chloride, fluoride, nitrate, nitrite, sulfate | Alex Senjem/AECOM | 5/5/20 | 1638 | [illegible] | 5/6/20 | 16:38 | 19.5 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/30/20



Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt (SCUR) - MN** | Document Revised: 27Mar2020 **Page 1 of 1** |
|---|---|---|
| | Document No.: **ENV-FRM-MIN4-0150 Rev.00** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt**

**Client Name:** Aecom

**Project #:** WO# : 10517015

PM: TS1 Due Date: 05/20/20

CLIENT: AECOM

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial See Exceptions ☐

**Tracking Number:**

**Custody Seal on Cooler/Box Present?** ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

**Packing Material:** ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☒ Yes ☐ No

**Thermometer:** ☒ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

**Did Samples Originate in West Virginia?** ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** °C

**Correction Factor:** TMe **Cooler Temp Corrected w/temp blank :** °C

**Average Corrected Temp (no temp blank only):** 19.5 °C ☒ See Exceptions ☐ 1 Container

**USDA Regulated Soil:** ( ☐ N/A, water sample/Other: )

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☑ No

**Date/Initials of Person Examining Contents:** 5.6.20

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☒ Yes | ☐ No | | 1. |
| Chain of Custody Relinquished? | ☒ Yes | ☐ No | | 2. |
| Sampler Name and/or Signature on COC? | ☒ Yes | ☐ No | ☐ N/A | 3. |
| Samples Arrived within Hold Time? | ☒ Yes | ☐ No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☒ No | | 5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | | 6. |
| Sufficient Volume? | ☒ Yes | ☐ No | | 7. |
| Correct Containers Used? | ☒ Yes | ☐ No | | 8. |
| -Pace Containers Used? | ☒ Yes | ☐ No | | |
| Containers Intact? | ☒ Yes | ☐ No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☒ N/A | 10. Is sediment visible in the dissolved container? ☐ Yes ☐ No |
| Is sufficient information available to reconcile the samples to the COC? | ☒ Yes | ☐ No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other | | | | |
| All containers needing acid/base preservation have been checked? | ☐ Yes | ☐ No | ☒ N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☐ Yes | ☐ No | ☒ N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☐ Yes | ☐ No | ☒ N/A | Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☐ Yes | ☐ No | ☒ N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐ Yes | ☐ No | ☒ N/A | |
| Trip Blank Present? | ☐ Yes | ☐ No | ☒ N/A | 14. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☒ N/A | Pace Trip Blank Lot # (if purchased): |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

**Project Manager Review:** **Date:** 5/7/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by:

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt (SCUR) Exception Form** | Document Revised: 26Mar2020 **Page 1 of 1** |
|---|---|---|
| | Document No.: **ENV-FRM-MIN4-0142 Rev.00** | Pace Analytical Services - **Minneapolis** |

## SCUR Exceptions:

## Workorder #:

| Out of Temp Sample IDs | Container Type | # of Containers |
|---|---|---|
| | | |
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**PM Notified?** ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

**Multiple Cooler Project?** ☐Yes ☐No
**If you answered yes, fill out information to the left.**

**No Temp Blank**

| Read Temp | Corrected Temp | Average Temp |
|---|---|---|
| 19.1 | 19.1 | 19.5 |
| 19.2 | 19.2 | |
| 20.4 | 20.4 | |
| | | |

| Tracking Number/Temperature | |
|---|---|
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**Other Issues**

| Issue Type: / Sample ID | Container Type | # of Containers |
|---|---|---|
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## pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preserv. | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance after addition? | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ☐Yes ☐No | |
| | | | | | | | | ☐Yes ☐No | |
| | | | | | | | | ☐Yes ☐No | |
| | | | | | | | | ☐Yes ☐No | |

WO# : 12143733

12143733

# Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN
Cert. Needed: ☒ Yes

**Workorder:** 10517015 **Workorder Name:** 60618753 MPCA P1007 **Owner Received Date:** 5/6/2020 **Results Requested By:** 5/20/2020

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: Unpreserved | GCU/JGFU | | | | | Anions by 300.0/9056A *** | TOC by 9060A | Total Phosporus by 365.1 | dry weight | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC16A-SED-WET-0-6-01-043020 | PS | 4/30/2020 11:30 | 10517015001 | Solid | ~~1~~ | 2 | | | | | X | X | X | X | | | | | | | | | |
| 2 | RC16A-SED-WET-6-12-01-043020 | PS | 4/30/2020 12:00 | 10517015002 | Solid | 1 | | | | | | | X | | X | | | | | | | | | |
| 3 | EP21-SED-BEACH-FOAM-01-050520 | PS | 5/5/2020 15:30 | 10517015003 | Solid | 1 | | | | | | | X | | X | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | PACE | 5/8/20 1650 | RCC 5/8/20 | 1845 |
| 2 | RCC 5/8/20 | 2300 | B. Mathews 5/11/20 | 0700 |
| 3 | | | | |

**Comments**

*** bromide,chloride, fluoride, nitrate, nitrite, sulfate

**Cooler Temperature on Receipt** 2.3 °C **Custody Seal** (Y) or N **Received on Ice** (Y) or N **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

| Pace Analytical | Document Name: Sample Condition Upon Receipt Form | Document Revised: 25Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: F-VM-C-001-rev.14 | Issuing Authority: Pace Virginia Minnesota Quality Office |

**Sample Condition Upon Receipt**

Client Name: Pace MN

Project #: WO# : 12143733

PM: LM2 Due Date: 05/20/20

CLIENT: PACE MPLS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☑ 140792808 Type of Ice: ☐ Wet ☐ Blue ☐ None ☑ Samples on ice, cooling process has begun

Cooler Temp Read °C: 2.0 Cooler Temp Corrected °C: 2.3

Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6 °C Correction Factor: 0.3 Date and Initials of Person Examining Contents: 5/8/20 AL

Comments: BM 5/11/20

| | | | | |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Chain of Custody Filled Out? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Sampler Name and Signature on COC? | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☑ No | ☐ N/A | 6. |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | ☐ N/A | 7. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 8. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved containers. |
| Sample Labels Match COC? | ☑ Yes | ☐ No | ☐ N/A | 12. |
| -Includes Date/Time/ID/Analysis Matrix: SL | | | | |
| All containers needing acid/base preservation properly preserved? | ☐ Yes | ☐ No | ☑ N/A | 13. Note samples needing adjustment: |
| Headspace in Methyl Mercury Container | ☐ Yes | ☐ No | ☑ N/A | 14. |
| Headspace in VOA Vials ( >6mm)? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if purchased): | | | | |

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: Leah Morehouse Date: 05/11/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 03, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60618753 MPCA P1007
Pace Project No.: 10517718

Dear Andrew Tarara:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Virginia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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# CERTIFICATIONS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

**Pace Analytical Services Virginia Minnesota**

315 Chestnut Street, Virginia, MN 55792
Montana Certificate #CERT0103
Alaska Certification UST-107
Minnesota Dept of Health Certification #: 027-137-445
North Dakota Certification: # R-203
Wisconsin DNR Certification # : 998027470
WA Department of Ecology Lab ID# C1007



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## SAMPLE SUMMARY

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10517718001** | **EP9-WAT-BULK-01-051220** | Water | 05/12/20 14:10 | 05/13/20 09:30 |
| **10517718002** | **EP15-WAT-BULK-01-051220** | Water | 05/12/20 13:30 | 05/13/20 09:30 |
| **10517718003** | **EP18-WAT-BULK-01-051220** | Water | 05/12/20 11:45 | 05/13/20 09:30 |
| **10517718004** | **GL1-WAT-BULK-01-051220** | Water | 05/12/20 10:15 | 05/13/20 09:30 |
| **10517718005** | **EP18-SED-0-6-01-051220** | Solid | 05/12/20 11:30 | 05/13/20 09:30 |
| **10517718006** | **GL1-SED-0-6-01-051220** | Solid | 05/12/20 10:00 | 05/13/20 09:30 |



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## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **10517718001** | **EP9-WAT-BULK-01-051220** | EPA 180.1 | SH4 | 1 | PASI-M |
| | | SM 2320B | SH4 | 1 | PASI-M |
| | | SM 2540C | EPT | 1 | PASI-M |
| | | SM 2540D | EPT | 1 | PASI-M |
| | | SM 4500-H+B | SH4 | 1 | PASI-M |
| | | SM 5310 C-2011 | BE1 | 1 | PASI-V |
| **10517718002** | **EP15-WAT-BULK-01-051220** | EPA 180.1 | SH4 | 1 | PASI-M |
| | | SM 2320B | SH4 | 1 | PASI-M |
| | | SM 2540C | EPT | 1 | PASI-M |
| | | SM 2540D | EPT | 1 | PASI-M |
| | | SM 4500-H+B | SH4 | 1 | PASI-M |
| | | SM 5310 C-2011 | BE1 | 1 | PASI-V |
| **10517718003** | **EP18-WAT-BULK-01-051220** | EPA 6010D | IP | 1 | PASI-M |
| | | EPA 6020B | RJS | 5 | PASI-M |
| | | EPA 180.1 | SH4 | 1 | PASI-M |
| | | SM 2320B | SH4 | 1 | PASI-M |
| | | SM 2540C | EPT | 1 | PASI-M |
| | | SM 2540D | EPT | 1 | PASI-M |
| | | SM 4500-H+B | SH4 | 1 | PASI-M |
| | | EPA 300.0 | KEO | 4 | PASI-M |
| | | EPA 353.2 | JFP | 1 | PASI-M |
| | | SM 5310 C-2011 | BE1 | 1 | PASI-V |
| | | SM 4500-P F | AR3 | 1 | PASI-M |
| **10517718004** | **GL1-WAT-BULK-01-051220** | EPA 6010D | IP | 1 | PASI-M |
| | | EPA 6020B | RJS | 5 | PASI-M |
| | | EPA 180.1 | SH4 | 1 | PASI-M |
| | | SM 2320B | SH4 | 1 | PASI-M |
| | | SM 2540C | EPT | 1 | PASI-M |
| | | SM 2540D | EPT | 1 | PASI-M |
| | | SM 4500-H+B | SH4 | 1 | PASI-M |
| | | EPA 300.0 | KEO | 4 | PASI-M |
| | | EPA 353.2 | JFP | 1 | PASI-M |
| | | SM 5310 C-2011 | BE1 | 1 | PASI-V |
| | | SM 4500-P F | AR3 | 1 | PASI-M |
| **10517718005** | **EP18-SED-0-6-01-051220** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |



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## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **10517718006** | **GL1-SED-0-6-01-051220** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |

PASI-M = Pace Analytical Services - Minneapolis
PASI-V = Pace Analytical Services - Virginia

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10517718001** | **EP9-WAT-BULK-01-051220** | | | | | |
| EPA 180.1 | Turbidity | 1.6 | NTU | 0.60 | 05/13/20 15:02 | |
| SM 2320B | Alkalinity, Total as CaCO3 | 164 | mg/L | 10.0 | 05/21/20 13:22 | |
| SM 2540C | Total Dissolved Solids | 246 | mg/L | 10.0 | 05/18/20 10:52 | |
| SM 4500-H+B | pH at 25 Degrees C | 8.4 | Std. Units | 0.10 | 05/26/20 18:38 | H6 |
| SM 5310 C-2011 | Total Organic Carbon | 4.4 | mg/L | 1.0 | 05/18/20 23:35 | |
| **10517718002** | **EP15-WAT-BULK-01-051220** | | | | | |
| EPA 180.1 | Turbidity | 13.4 | NTU | 0.60 | 05/13/20 15:02 | |
| SM 2320B | Alkalinity, Total as CaCO3 | 162 | mg/L | 10.0 | 05/21/20 13:38 | |
| SM 2540C | Total Dissolved Solids | 246 | mg/L | 10.0 | 05/18/20 10:52 | |
| SM 2540D | Total Suspended Solids | 85.0 | mg/L | 10.0 | 05/19/20 15:09 | |
| SM 4500-H+B | pH at 25 Degrees C | 8.1 | Std. Units | 0.10 | 05/26/20 18:42 | H6 |
| SM 5310 C-2011 | Total Organic Carbon | 4.2 | mg/L | 1.0 | 05/18/20 23:48 | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | | | | | |
| EPA 6010D | Iron | 196 | ug/L | 50.0 | 05/18/20 13:39 | |
| EPA 6020B | Potassium | 2150 | ug/L | 100 | 05/18/20 21:56 | |
| EPA 6020B | Calcium | 32900 | ug/L | 40.0 | 05/18/20 21:56 | |
| EPA 6020B | Sodium | 53100 | ug/L | 250 | 05/20/20 10:15 | |
| EPA 6020B | Magnesium | 11200 | ug/L | 50.0 | 05/20/20 10:15 | |
| EPA 180.1 | Turbidity | 2.1 | NTU | 0.60 | 05/13/20 15:01 | |
| SM 2320B | Alkalinity, Total as CaCO3 | 95.4 | mg/L | 10.0 | 05/21/20 13:52 | |
| SM 2540C | Total Dissolved Solids | 275 | mg/L | 10.0 | 05/18/20 10:52 | |
| SM 4500-H+B | pH at 25 Degrees C | 7.8 | Std. Units | 0.10 | 05/26/20 18:44 | H6 |
| EPA 300.0 | Chloride | 91.6 | mg/L | 1.2 | 05/27/20 00:12 | |
| EPA 300.0 | Sulfate | 2.5 | mg/L | 2.0 | 05/27/20 00:12 | |
| SM 5310 C-2011 | Total Organic Carbon | 7.6 | mg/L | 1.0 | 05/19/20 00:01 | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | | | | | |
| EPA 6010D | Iron | 162 | ug/L | 50.0 | 05/18/20 13:42 | |
| EPA 6020B | Sodium | 27400 | ug/L | 50.0 | 05/18/20 22:02 | |
| EPA 6020B | Potassium | 3700 | ug/L | 100 | 05/18/20 22:02 | |
| EPA 6020B | Calcium | 8670 | ug/L | 40.0 | 05/18/20 22:02 | |
| EPA 6020B | Magnesium | 3110 | ug/L | 50.0 | 05/20/20 10:24 | |
| EPA 180.1 | Turbidity | 10.5 | NTU | 0.60 | 05/13/20 15:00 | |
| SM 2320B | Alkalinity, Total as CaCO3 | 32.6 | mg/L | 10.0 | 05/21/20 13:57 | |
| SM 2540C | Total Dissolved Solids | 122 | mg/L | 10.0 | 05/18/20 10:52 | |
| SM 2540D | Total Suspended Solids | 22.0 | mg/L | 10.0 | 05/19/20 15:09 | |
| SM 4500-H+B | pH at 25 Degrees C | 7.2 | Std. Units | 0.10 | 05/26/20 18:46 | H6 |
| EPA 300.0 | Chloride | 35.3 | mg/L | 1.2 | 05/27/20 00:27 | |
| SM 5310 C-2011 | Total Organic Carbon | 10.6 | mg/L | 1.0 | 05/19/20 21:41 | |
| **10517718005** | **EP18-SED-0-6-01-051220** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 76.7 | % | 0.10 | 05/18/20 14:35 | |
| EPA 9056A | Chloride | 109 | mg/kg | 12.5 | 05/19/20 13:09 | |
| EPA 9056A | Sulfate | 29.2 | mg/kg | 20.9 | 05/19/20 13:09 | |
| EPA 9060A | RPD% | 96.9 | % | | 05/29/20 19:23 | R1 |
| EPA 9060A | Total Organic Carbon | 45700 | mg/kg | 9290 | 05/29/20 19:16 | |
| EPA 9060A | Total Organic Carbon | 132000 | mg/kg | 9200 | 05/29/20 19:23 | |

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10517718005** | **EP18-SED-0-6-01-051220** | | | | | |
| EPA 9060A | Mean Total Organic Carbon | 88600 | mg/kg | 9250 | 05/29/20 19:23 | |
| **10517718006** | **GL1-SED-0-6-01-051220** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 40.4 | % | 0.10 | 05/18/20 14:35 | D6 |
| EPA 9056A | Chloride | 22.6 | mg/kg | 12.2 | 05/19/20 13:30 | |
| EPA 9056A | Sulfate | 59.0 | mg/kg | 20.4 | 05/19/20 13:30 | |
| EPA 9060A | RPD% | 21.8 | % | | 05/29/20 19:39 | |
| EPA 9060A | Total Organic Carbon | 16000 | mg/kg | 7470 | 05/29/20 19:31 | |
| EPA 9060A | Total Organic Carbon | 19900 | mg/kg | 7070 | 05/29/20 19:39 | |
| EPA 9060A | Mean Total Organic Carbon | 18000 | mg/kg | 7270 | 05/29/20 19:39 | |



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 6010D**
**Description:** 6010D MET ICP
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 6020B**
**Description:** 6020B MET ICPMS
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for EPA 6020B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3020A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 675516

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10517017004

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 3616416)
  - Calcium
  - Magnesium
  - Sodium
- MSD (Lab ID: 3616417)
  - Calcium
  - Sodium

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 6020B**
**Description:** 6020B MET ICPMS
**Client:** AECOM MN ND
**Date:** June 03, 2020

Analyte Comments:

QC Batch: 675516

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3616416)
  - Calcium
- MSD (Lab ID: 3616417)
  - Calcium



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 180.1**
**Description:** 180.1 Turbidity
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
4 samples were analyzed for EPA 180.1 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **SM 2320B**
**Description:** 2320B Alkalinity
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
4 samples were analyzed for SM 2320B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **SM 2540C**
**Description:** 2540C Total Dissolved Solids
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
4 samples were analyzed for SM 2540C by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **SM 2540D**
**Description:** 2540D Total Suspended Solids
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
4 samples were analyzed for SM 2540D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **SM 4500-H+B**
**Description:** 4500H+ pH, Electrometric
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- EP15-WAT-BULK-01-051220 (Lab ID: 10517718002)
- EP18-WAT-BULK-01-051220 (Lab ID: 10517718003)
- EP9-WAT-BULK-01-051220 (Lab ID: 10517718001)
- GL1-WAT-BULK-01-051220 (Lab ID: 10517718004)

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 300.0**
**Description:** 300.0 IC Anions
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for EPA 300.0 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 677126

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10517676004,10517676005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3625021)
  - Bromide
  - Chloride
  - Fluoride
  - Sulfate
- MS (Lab ID: 3625023)
  - Bromide
  - Chloride
  - Fluoride
- MSD (Lab ID: 3625022)
  - Bromide
  - Chloride
  - Fluoride
  - Sulfate
- MSD (Lab ID: 3625024)
  - Bromide
  - Chloride
  - Fluoride

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MSD (Lab ID: 3625024)
  - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 3625022)
  - Fluoride

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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 300.0**
**Description:** 300.0 IC Anions
**Client:** AECOM MN ND
**Date:** June 03, 2020

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 353.2**
**Description:** 353.2 Nitrate + Nitrite
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for EPA 353.2 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **SM 5310 C-2011**
**Description:** 5310C TOC
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
4 samples were analyzed for SM 5310 C-2011 by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 9056A**
**Description:** 9056 IC Anions
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for EPA 9056A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 300.0 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **EPA 9060A**
**Description:** Total Organic Carbon
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for EPA 9060A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Method:** **SM 4500-P F**
**Description:** SM4500P-F, Total Phosphorus
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for SM 4500-P F by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM 4500-P B with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: EP9-WAT-BULK-01-051220** **Lab ID: 10517718001** Collected: 05/12/20 14:10 Received: 05/13/20 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **180.1 Turbidity** | Analytical Method: EPA 180.1<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Turbidity | **1.6** | NTU | 0.60 | 0.23 | 1 | | 05/13/20 15:02 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Alkalinity, Total as CaCO3 | **164** | mg/L | 10.0 | 2.0 | 1 | | 05/21/20 13:22 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Dissolved Solids | **246** | mg/L | 10.0 | 5.0 | 1 | | 05/18/20 10:52 | | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Suspended Solids | ND | mg/L | 10.0 | 5.0 | 1 | | 05/19/20 15:09 | | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **8.4** | Std. Units | 0.10 | 0.10 | 1 | | 05/26/20 18:38 | | H6 |
| **5310C TOC** | Analytical Method: SM 5310 C-2011<br>Pace Analytical Services - Virginia | | | | | | | | |
| Total Organic Carbon | **4.4** | mg/L | 1.0 | 0.32 | 1 | | 05/18/20 23:35 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: EP15-WAT-BULK-01-051220** **Lab ID: 10517718002** Collected: 05/12/20 13:30 Received: 05/13/20 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **180.1 Turbidity** | Analytical Method: EPA 180.1<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Turbidity | **13.4** | NTU | 0.60 | 0.23 | 1 | | 05/13/20 15:02 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Alkalinity, Total as CaCO3 | **162** | mg/L | 10.0 | 2.0 | 1 | | 05/21/20 13:38 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Dissolved Solids | **246** | mg/L | 10.0 | 5.0 | 1 | | 05/18/20 10:52 | | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Suspended Solids | **85.0** | mg/L | 10.0 | 5.0 | 1 | | 05/19/20 15:09 | | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **8.1** | Std. Units | 0.10 | 0.10 | 1 | | 05/26/20 18:42 | | H6 |
| **5310C TOC** | Analytical Method: SM 5310 C-2011<br>Pace Analytical Services - Virginia | | | | | | | | |
| Total Organic Carbon | **4.2** | mg/L | 1.0 | 0.32 | 1 | | 05/18/20 23:48 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: EP18-WAT-BULK-01-051220** **Lab ID: 10517718003** Collected: 05/12/20 11:45 Received: 05/13/20 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Iron | **196** | ug/L | 50.0 | 17.0 | 1 | 05/15/20 05:15 | 05/18/20 13:39 | 7439-89-6 | |
| **6020B MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3020A<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Potassium | **2150** | ug/L | 100 | 17.9 | 1 | 05/15/20 14:01 | 05/18/20 21:56 | 7440-09-7 | |
| Calcium | **32900** | ug/L | 40.0 | 18.4 | 1 | 05/15/20 14:01 | 05/18/20 21:56 | 7440-70-2 | |
| Zinc | ND | ug/L | 5.0 | 2.4 | 1 | 05/15/20 14:01 | 05/18/20 21:56 | 7440-66-6 | |
| Sodium | **53100** | ug/L | 250 | 122 | 5 | 05/15/20 14:01 | 05/20/20 10:15 | 7440-23-5 | |
| Magnesium | **11200** | ug/L | 50.0 | 20.6 | 5 | 05/15/20 14:01 | 05/20/20 10:15 | 7439-95-4 | |
| **180.1 Turbidity** | Analytical Method: EPA 180.1<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Turbidity | **2.1** | NTU | 0.60 | 0.23 | 1 | | 05/13/20 15:01 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Alkalinity, Total as CaCO3 | **95.4** | mg/L | 10.0 | 2.0 | 1 | | 05/21/20 13:52 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Dissolved Solids | **275** | mg/L | 10.0 | 5.0 | 1 | | 05/18/20 10:52 | | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Suspended Solids | ND | mg/L | 10.0 | 5.0 | 1 | | 05/19/20 15:09 | | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **7.8** | Std. Units | 0.10 | 0.10 | 1 | | 05/26/20 18:44 | | H6 |
| **300.0 IC Anions** | Analytical Method: EPA 300.0<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Bromide | ND | mg/L | 0.080 | 0.011 | 1 | | 05/27/20 00:12 | 24959-67-9 | |
| Chloride | **91.6** | mg/L | 1.2 | 0.50 | 1 | | 05/27/20 00:12 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.0096 | 1 | | 05/27/20 00:12 | 16984-48-8 | |
| Sulfate | **2.5** | mg/L | 2.0 | 0.42 | 1 | | 05/27/20 00:12 | 14808-79-8 | |
| **353.2 Nitrate + Nitrite** | Analytical Method: EPA 353.2<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Nitrogen, NO2 plus NO3 | ND | mg/L | 0.020 | 0.018 | 1 | | 05/21/20 17:11 | | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: EP18-WAT-BULK-01-051220** **Lab ID: 10517718003** Collected: 05/12/20 11:45 Received: 05/13/20 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5310C TOC** | Analytical Method: SM 5310 C-2011<br>Pace Analytical Services - Virginia | | | | | | | | |
| Total Organic Carbon | **7.6** | mg/L | 1.0 | 0.32 | 1 | | 05/19/20 00:01 | 7440-44-0 | |
| **SM4500P-F, Total Phosphorus** | Analytical Method: SM 4500-P F Preparation Method: SM 4500-P B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Phosphorus | ND | mg/L | 0.10 | 0.028 | 1 | 05/20/20 21:32 | 05/21/20 17:37 | 7723-14-0 | |



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: GL1-WAT-BULK-01-051220** **Lab ID: 10517718004** Collected: 05/12/20 10:15 Received: 05/13/20 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Iron | **162** | ug/L | 50.0 | 17.0 | 1 | 05/15/20 05:15 | 05/18/20 13:42 | 7439-89-6 | |
| **6020B MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3020A<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Sodium | **27400** | ug/L | 50.0 | 24.4 | 1 | 05/15/20 14:01 | 05/18/20 22:02 | 7440-23-5 | |
| Potassium | **3700** | ug/L | 100 | 17.9 | 1 | 05/15/20 14:01 | 05/18/20 22:02 | 7440-09-7 | |
| Calcium | **8670** | ug/L | 40.0 | 18.4 | 1 | 05/15/20 14:01 | 05/18/20 22:02 | 7440-70-2 | |
| Zinc | ND | ug/L | 5.0 | 2.4 | 1 | 05/15/20 14:01 | 05/18/20 22:02 | 7440-66-6 | |
| Magnesium | **3110** | ug/L | 50.0 | 20.6 | 5 | 05/15/20 14:01 | 05/20/20 10:24 | 7439-95-4 | |
| **180.1 Turbidity** | Analytical Method: EPA 180.1<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Turbidity | **10.5** | NTU | 0.60 | 0.23 | 1 | | 05/13/20 15:00 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Alkalinity, Total as CaCO3 | **32.6** | mg/L | 10.0 | 2.0 | 1 | | 05/21/20 13:57 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Dissolved Solids | **122** | mg/L | 10.0 | 5.0 | 1 | | 05/18/20 10:52 | | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Suspended Solids | **22.0** | mg/L | 10.0 | 5.0 | 1 | | 05/19/20 15:09 | | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **7.2** | Std. Units | 0.10 | 0.10 | 1 | | 05/26/20 18:46 | | H6 |
| **300.0 IC Anions** | Analytical Method: EPA 300.0<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Bromide | ND | mg/L | 0.080 | 0.011 | 1 | | 05/27/20 00:27 | 24959-67-9 | |
| Chloride | **35.3** | mg/L | 1.2 | 0.50 | 1 | | 05/27/20 00:27 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.0096 | 1 | | 05/27/20 00:27 | 16984-48-8 | |
| Sulfate | ND | mg/L | 2.0 | 0.42 | 1 | | 05/27/20 00:27 | 14808-79-8 | |
| **353.2 Nitrate + Nitrite** | Analytical Method: EPA 353.2<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Nitrogen, NO2 plus NO3 | ND | mg/L | 0.020 | 0.018 | 1 | | 05/21/20 17:14 | | |
| **5310C TOC** | Analytical Method: SM 5310 C-2011<br>Pace Analytical Services - Virginia | | | | | | | | |
| Total Organic Carbon | **10.6** | mg/L | 1.0 | 0.32 | 1 | | 05/19/20 21:41 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: GL1-WAT-BULK-01-051220** **Lab ID: 10517718004** Collected: 05/12/20 10:15 Received: 05/13/20 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **SM4500P-F, Total Phosphorus** | Analytical Method: SM 4500-P F Preparation Method: SM 4500-P B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Phosphorus | ND | mg/L | 0.10 | 0.028 | 1 | 05/20/20 21:32 | 05/21/20 17:38 | 7723-14-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: EP18-SED-0-6-01-051220** **Lab ID: 10517718005** Collected: 05/12/20 11:30 Received: 05/13/20 09:30 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **76.7** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:35 | | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.1 | 0.59 | 1 | 05/19/20 10:38 | 05/19/20 13:09 | 24959-67-9 | |
| Chloride | **109** | mg/kg | 12.5 | 5.2 | 1 | 05/19/20 10:38 | 05/19/20 13:09 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.6 | 0.69 | 1 | 05/19/20 10:38 | 05/19/20 13:09 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 2.1 | 0.78 | 1 | 05/19/20 10:38 | 05/19/20 13:09 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.1 | 0.35 | 1 | 05/19/20 10:38 | 05/19/20 13:09 | 14797-65-0 | |
| Sulfate | **29.2** | mg/kg | 20.9 | 4.7 | 1 | 05/19/20 10:38 | 05/19/20 13:09 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **96.9** | % | | | 1 | | 05/29/20 19:23 | | R1 |
| Total Organic Carbon | **45700** | mg/kg | 9290 | 2290 | 1 | | 05/29/20 19:16 | 7440-44-0 | |
| Total Organic Carbon | **132000** | mg/kg | 9200 | 2270 | 1 | | 05/29/20 19:23 | 7440-44-0 | |
| Mean Total Organic Carbon | **88600** | mg/kg | 9250 | 2280 | 1 | | 05/29/20 19:23 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

**Sample: GL1-SED-0-6-01-051220** **Lab ID: 10517718006** Collected: 05/12/20 10:00 Received: 05/13/20 09:30 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **40.4** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:35 | | D6 |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 2.0 | 0.58 | 1 | 05/19/20 10:38 | 05/19/20 13:30 | 24959-67-9 | |
| Chloride | **22.6** | mg/kg | 12.2 | 5.1 | 1 | 05/19/20 10:38 | 05/19/20 13:30 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.5 | 0.67 | 1 | 05/19/20 10:38 | 05/19/20 13:30 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 2.0 | 0.76 | 1 | 05/19/20 10:38 | 05/19/20 13:30 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 2.0 | 0.34 | 1 | 05/19/20 10:38 | 05/19/20 13:30 | 14797-65-0 | |
| Sulfate | **59.0** | mg/kg | 20.4 | 4.6 | 1 | 05/19/20 10:38 | 05/19/20 13:30 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A | | | | | | | | |
| | Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **21.8** | % | | | 1 | | 05/29/20 19:39 | | |
| Total Organic Carbon | **16000** | mg/kg | 7470 | 1840 | 1 | | 05/29/20 19:31 | 7440-44-0 | |
| Total Organic Carbon | **19900** | mg/kg | 7070 | 1740 | 1 | | 05/29/20 19:39 | 7440-44-0 | |
| Mean Total Organic Carbon | **18000** | mg/kg | 7270 | 1790 | 1 | | 05/29/20 19:39 | 7440-44-0 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 675257
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718003, 10517718004

METHOD BLANK: 3614878 Matrix: Water
Associated Lab Samples: 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Iron | ug/L | ND | 50.0 | 17.0 | 05/18/20 13:04 | |

LABORATORY CONTROL SAMPLE: 3614879

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Iron | ug/L | 20000 | 19100 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3614880 3614881

| Parameter | Units | 10517375003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | ND | 20000 | 20000 | 18700 | 19000 | 94 | 95 | 75-125 | 1 | 20 | |

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# QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 675516
QC Batch Method: EPA 3020A
Analysis Method: EPA 6020B
Analysis Description: 6020B Water UPD5
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718003, 10517718004

METHOD BLANK: 3616414 Matrix: Water
Associated Lab Samples: 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | ug/L | ND | 40.0 | 18.4 | 05/18/20 20:10 | |
| Magnesium | ug/L | ND | 10.0 | 4.1 | 05/19/20 09:53 | |
| Potassium | ug/L | ND | 100 | 17.9 | 05/18/20 20:10 | |
| Sodium | ug/L | ND | 50.0 | 24.4 | 05/19/20 09:53 | |
| Zinc | ug/L | ND | 5.0 | 2.4 | 05/18/20 20:10 | |

LABORATORY CONTROL SAMPLE: 3616415

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | ug/L | 2000 | 2070 | 104 | 80-120 | |
| Magnesium | ug/L | 2000 | 2130 | 107 | 80-120 | |
| Potassium | ug/L | 2000 | 2110 | 106 | 80-120 | |
| Sodium | ug/L | 2000 | 2110 | 105 | 80-120 | |
| Zinc | ug/L | 100 | 100 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3616416 3616417

| Parameter | Units | 10517017004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | ug/L | 45900 | 2000 | 2000 | 48100 | 49300 | 109 | 166 | 75-125 | 2 | 20 | E,P6 |
| Magnesium | ug/L | 17300 | 2000 | 2000 | 18400 | 18800 | 56 | 76 | 75-125 | 2 | 20 | P6 |
| Potassium | ug/L | 1940 | 2000 | 2000 | 3860 | 3920 | 96 | 99 | 75-125 | 2 | 20 | |
| Sodium | ug/L | 38300 | 2000 | 2000 | 38900 | 39600 | 30 | 64 | 75-125 | 2 | 20 | P6 |
| Zinc | ug/L | ND | 100 | 100 | 101 | 102 | 97 | 98 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 189303
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia

Associated Lab Samples: 10517718005, 10517718006

SAMPLE DUPLICATE: 744999

| Parameter | Units | 10517718006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 40.4 | 42.9 | 6 | 5 | D6 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 675175
QC Batch Method: EPA 180.1
Analysis Method: EPA 180.1
Analysis Description: 180.1 Turbidity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

METHOD BLANK: 3614541 Matrix: Water
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Turbidity | NTU | ND | 0.60 | 0.23 | 05/13/20 14:57 | |

LABORATORY CONTROL SAMPLE: 3614542

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Turbidity | NTU | 10.1 | 9.7 | 96 | 90-110 | |

SAMPLE DUPLICATE: 3614543

| Parameter | Units | 10517684001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Turbidity | NTU | 0.25J | .28J | | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 676471 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

METHOD BLANK: 3621268 Matrix: Water
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 10.0 | 2.0 | 05/21/20 12:51 | |

LABORATORY CONTROL SAMPLE & LCSD: 3621269 3621270

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 40 | 42.7 | 42.6 | 107 | 107 | 90-110 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3621271 3621272

| Parameter | Units | 10517713005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 189 | 40 | 40 | 234 | 233 | 113 | 111 | 80-120 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3621273 3621274

| Parameter | Units | 10517718001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 164 | 40 | 40 | 203 | 204 | 99 | 100 | 80-120 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 675795 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

METHOD BLANK: 3618123 Matrix: Water
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 10.0 | 5.0 | 05/18/20 10:52 | |

LABORATORY CONTROL SAMPLE: 3618124

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 1000 | 1020 | 102 | 80-120 | |

SAMPLE DUPLICATE: 3618125

| Parameter | Units | 10517718001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 246 | 235 | 5 | 5 | |

SAMPLE DUPLICATE: 3618126

| Parameter | Units | 10517718002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 246 | 246 | 0 | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 676018 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

METHOD BLANK: 3618986 Matrix: Water
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | ND | 10.0 | 5.0 | 05/19/20 15:09 | |

LABORATORY CONTROL SAMPLE: 3618987

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | 100 | 106 | 106 | 80-120 | |

SAMPLE DUPLICATE: 3618988

| Parameter | Units | 10517718001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | ND | ND | | 5 | |

SAMPLE DUPLICATE: 3618989

| Parameter | Units | 10517931004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | <10.0 | ND | | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 677411
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

LABORATORY CONTROL SAMPLE: 3626000

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 5 | 5.0 | 100 | 98-102 | H6 |

SAMPLE DUPLICATE: 3626001

| Parameter | Units | 10517702026 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 7.4 | 7.4 | 1 | 3 | H6 |

SAMPLE DUPLICATE: 3626002

| Parameter | Units | 10517718001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 8.4 | 8.4 | 0 | 3 | H6 |

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# QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 677126
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718003, 10517718004

METHOD BLANK: 3625019 Matrix: Water
Associated Lab Samples: 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/L | ND | 0.080 | 0.011 | 05/26/20 19:04 | |
| Chloride | mg/L | ND | 1.2 | 0.50 | 05/26/20 19:04 | |
| Fluoride | mg/L | ND | 0.10 | 0.0096 | 05/26/20 19:04 | |
| Sulfate | mg/L | ND | 2.0 | 0.42 | 05/26/20 19:04 | |

LABORATORY CONTROL SAMPLE: 3625020

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/L | 1 | 0.95 | 95 | 90-110 | |
| Chloride | mg/L | 12.5 | 12.3 | 99 | 90-110 | |
| Fluoride | mg/L | 1 | 1.0 | 101 | 90-110 | |
| Sulfate | mg/L | 12.5 | 12.9 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3625021 3625022

| Parameter | Units | 10517676004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/L | ND | 1 | 1 | 0.42 | 0.42 | 42 | 42 | 90-110 | 1 | 20 | M1 |
| Chloride | mg/L | 8.6 | 12.5 | 12.5 | 18.2 | 17.9 | 77 | 75 | 90-110 | 1 | 20 | M1 |
| Fluoride | mg/L | 0.099 | 1 | 1 | .066J | 0.25 | -3 | 15 | 90-110 | 115 | 20 | M1,R1 |
| Sulfate | mg/L | 74.5 | 12.5 | 12.5 | 76.8 | 73.4 | 18 | -9 | 90-110 | 5 | 20 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3625023 3625024

| Parameter | Units | 10517676005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/L | ND | 1 | 1 | 0.41 | 0.40 | 41 | 40 | 90-110 | 1 | 20 | M1 |
| Chloride | mg/L | 4.6 | 12.5 | 12.5 | 14.6 | 14.4 | 80 | 79 | 90-110 | 1 | 20 | M1 |
| Fluoride | mg/L | 0.095 | 1 | 1 | 0.28 | 0.29 | 18 | 20 | 90-110 | 6 | 20 | M1 |
| Sulfate | mg/L | 105 | 125 | 125 | 218 | 215 | 91 | 88 | 90-110 | 1 | 20 | M6 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 676821
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718003, 10517718004

METHOD BLANK: 3622876 Matrix: Water
Associated Lab Samples: 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | ND | 0.020 | 0.018 | 05/21/20 17:37 | |

LABORATORY CONTROL SAMPLE: 3622877

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 1 | 0.95 | 95 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3622878 3622879

| Parameter | Units | 10517954003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | ND | 1 | 1 | 1.0 | 1.0 | 104 | 102 | 90-110 | 2 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3622880 3622881

| Parameter | Units | 10517964001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | <0.10 | 1 | 1 | 1.0 | 1.0 | 98 | 98 | 90-110 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 189320 — Analysis Method: SM 5310 C-2011
QC Batch Method: SM 5310 C-2011 — Analysis Description: 5310C TOC
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

METHOD BLANK: 745044 Matrix: Water
Associated Lab Samples: 10517718001, 10517718002, 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | ND | 1.0 | 0.32 | 05/18/20 19:53 | |

LABORATORY CONTROL SAMPLE: 745045

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 25 | 25.0 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 745046 745047

| Parameter | Units | 10517689001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 147 | 250 | 250 | 385 | 377 | 95 | 92 | 80-120 | 2 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 745048 745049

| Parameter | Units | 10517846001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 113 | 250 | 250 | 356 | 357 | 97 | 97 | 80-120 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 189353
QC Batch Method: EPA 300.0
Analysis Method: EPA 9056A
Analysis Description: 9056 IC Anions, Soil
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10517718005, 10517718006

METHOD BLANK: 745142 Matrix: Solid
Associated Lab Samples: 10517718005, 10517718006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 2.0 | 0.56 | 05/19/20 11:24 | |
| Chloride | mg/kg | ND | 12.0 | 5.0 | 05/19/20 11:24 | |
| Fluoride | mg/kg | ND | 1.5 | 0.65 | 05/19/20 11:24 | |
| Nitrate as N | mg/kg | ND | 2.0 | 0.75 | 05/19/20 11:24 | |
| Nitrite as N | mg/kg | ND | 2.0 | 0.33 | 05/19/20 11:24 | |
| Sulfate | mg/kg | ND | 19.9 | 4.5 | 05/19/20 11:24 | |

LABORATORY CONTROL SAMPLE: 745141

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | 50.7 | 49.8 | 98 | 80-120 | |
| Chloride | mg/kg | 507 | 523 | 103 | 80-120 | |
| Fluoride | mg/kg | 50.7 | 51.5 | 102 | 80-120 | |
| Nitrate as N | mg/kg | 50.7 | 51.7 | 102 | 80-120 | |
| Nitrite as N | mg/kg | 50.7 | 53.2 | 105 | 80-120 | |
| Sulfate | mg/kg | 507 | 526 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 745143 745144

| Parameter | Units | 10515302010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 50.7 | 47.9 | 50.5 | 47.6 | 100 | 99 | 80-120 | 6 | 20 | H3 |
| Chloride | mg/kg | 12.0J | 507 | 479 | 537 | 506 | 104 | 103 | 80-120 | 6 | 20 | H3 |
| Fluoride | mg/kg | 1.6 | 50.7 | 47.9 | 43.3 | 39.8 | 82 | 80 | 80-120 | 9 | 20 | H3 |
| Nitrate as N | mg/kg | 0.85J | 50.7 | 47.9 | 52.7 | 49.5 | 102 | 102 | 80-120 | 6 | 20 | H3 |
| Nitrite as N | mg/kg | 0.50J | 50.7 | 47.9 | 54.2 | 51.0 | 106 | 105 | 80-120 | 6 | 20 | H3 |
| Sulfate | mg/kg | 7.0J | 507 | 479 | 540 | 509 | 105 | 105 | 80-120 | 6 | 20 | H3 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 189983
QC Batch Method: EPA 9060A
Analysis Method: EPA 9060A
Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10517718005, 10517718006

METHOD BLANK: 747476 Matrix: Solid
Associated Lab Samples: 10517718005, 10517718006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 604 | 149 | 05/29/20 12:47 | |

LABORATORY CONTROL SAMPLE: 747477

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 2600 | 79 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 748116 748117

| Parameter | Units | 10518018002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 570J | 6040 | 6040 | 6240 | 6460 | 94 | 98 | 70-130 | 4 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 748118 748119

| Parameter | Units | 10518018003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | <604 | 6040 | 6050 | 6000 | 6070 | 97 | 99 | 70-130 | 1 | 25 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

QC Batch: 676525
QC Batch Method: SM 4500-P B
Analysis Method: SM 4500-P F
Analysis Description: SM4500P-F, Total Phosphorus
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517718003, 10517718004

METHOD BLANK: 3621633 Matrix: Water
Associated Lab Samples: 10517718003, 10517718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/L | ND | 0.10 | 0.028 | 05/21/20 17:18 | |

LABORATORY CONTROL SAMPLE: 3621634

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/L | 2.5 | 2.4 | 97 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3621635 3621636

| Parameter | Units | 10518070001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/L | 1.3 | 2.5 | 2.5 | 3.8 | 3.7 | 99 | 97 | 80-120 | 2 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3621637 3621638

| Parameter | Units | 10518204003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | mg/L | <0.028 | 2.5 | 2.5 | 2.5 | 2.5 | 99 | 98 | 80-120 | 1 | 30 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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# QUALIFIERS

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| E | Analyte concentration exceeded the calibration range. The reported result is estimated. |
| H3 | Sample was received or analysis requested beyond the recognized method holding time. |
| H6 | Analysis initiated outside of the 15 minute EPA required holding time. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |
| R1 | RPD value was outside control limits. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10517718003** | **EP18-WAT-BULK-01-051220** | EPA 3010A | 675257 | EPA 6010D | 675601 |
| **10517718004** | **GL1-WAT-BULK-01-051220** | EPA 3010A | 675257 | EPA 6010D | 675601 |
| **10517718003** | **EP18-WAT-BULK-01-051220** | EPA 3020A | 675516 | EPA 6020B | 675760 |
| **10517718004** | **GL1-WAT-BULK-01-051220** | EPA 3020A | 675516 | EPA 6020B | 675760 |
| **10517718005** | **EP18-SED-0-6-01-051220** | ASTM D 2974-13 (2013) | 189303 | | |
| **10517718006** | **GL1-SED-0-6-01-051220** | ASTM D 2974-13 (2013) | 189303 | | |
| **10517718001** | **EP9-WAT-BULK-01-051220** | EPA 180.1 | 675175 | | |
| **10517718002** | **EP15-WAT-BULK-01-051220** | EPA 180.1 | 675175 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | EPA 180.1 | 675175 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | EPA 180.1 | 675175 | | |
| **10517718001** | **EP9-WAT-BULK-01-051220** | SM 2320B | 676471 | | |
| **10517718002** | **EP15-WAT-BULK-01-051220** | SM 2320B | 676471 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | SM 2320B | 676471 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | SM 2320B | 676471 | | |
| **10517718001** | **EP9-WAT-BULK-01-051220** | SM 2540C | 675795 | | |
| **10517718002** | **EP15-WAT-BULK-01-051220** | SM 2540C | 675795 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | SM 2540C | 675795 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | SM 2540C | 675795 | | |
| **10517718001** | **EP9-WAT-BULK-01-051220** | SM 2540D | 676018 | | |
| **10517718002** | **EP15-WAT-BULK-01-051220** | SM 2540D | 676018 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | SM 2540D | 676018 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | SM 2540D | 676018 | | |
| **10517718001** | **EP9-WAT-BULK-01-051220** | SM 4500-H+B | 677411 | | |
| **10517718002** | **EP15-WAT-BULK-01-051220** | SM 4500-H+B | 677411 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | SM 4500-H+B | 677411 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | SM 4500-H+B | 677411 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | EPA 300.0 | 677126 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | EPA 300.0 | 677126 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | EPA 353.2 | 676821 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | EPA 353.2 | 676821 | | |
| **10517718001** | **EP9-WAT-BULK-01-051220** | SM 5310 C-2011 | 189320 | | |
| **10517718002** | **EP15-WAT-BULK-01-051220** | SM 5310 C-2011 | 189320 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | SM 5310 C-2011 | 189320 | | |
| **10517718004** | **GL1-WAT-BULK-01-051220** | SM 5310 C-2011 | 189320 | | |
| **10517718005** | **EP18-SED-0-6-01-051220** | EPA 300.0 | 189353 | EPA 9056A | 189358 |
| **10517718006** | **GL1-SED-0-6-01-051220** | EPA 300.0 | 189353 | EPA 9056A | 189358 |
| **10517718005** | **EP18-SED-0-6-01-051220** | EPA 9060A | 189983 | | |
| **10517718005** | **EP18-SED-0-6-01-051220** | EPA 9060A | 189984 | | |
| **10517718006** | **GL1-SED-0-6-01-051220** | EPA 9060A | 189983 | | |
| **10517718006** | **GL1-SED-0-6-01-051220** | EPA 9060A | 189984 | | |
| **10517718003** | **EP18-WAT-BULK-01-051220** | SM 4500-P B | 676525 | SM 4500-P F | 676811 |

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007
Pace Project No.: 10517718

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10517718004** | **GL1-WAT-BULK-01-051220** | SM 4500-P B | 676525 | SM 4500-P F | 676811 |



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# CHAIN-OF-CUSTODY / WO# : 10517718

The Chain-of-Custody is a LEGAL DOCUM

10517718

Page: \ of \

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | AECOM | Report To: | Andrew Tarara | Attention: | USAPImaging@aecom.com |
| Address: | 800 LaSalle Ave, Suite 1100 | Copy To: | Amanda Lanning | Company Name: | AECOM |
| | Minneapolis, MN 55402 | | | Address: | |
| Email To: | andrew.tarara@aecom.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 612-376-2452 Fax: | Project Name: | MPCA P1007 | Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Requested Due Date/TAT: | 10-day Standard | Project Number: | 60618753 | Pace Profile #: | 22815 |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Requested Analysis Filtered (Y/N)

| ITEM # | Section D Required Client Information / SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE | Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED: COMPOSITE START DATE | COLLECTED: COMPOSITE START TIME | COLLECTED: COMPOSITE END/GRAB DATE | COLLECTED: COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Y/N | Analysis Test: Turbidity by 180.1* | pH by 4500 | TDS by 2540C | TSS by 2540D | Alkalinity by 2320 | Anions by 300.0** | Total Phosphorus by 4500 | Nitrate + Nitrite by 353.2 | Total Metals*** | TOC by SM5310C | | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EP9-WAT-BULK-01-051220 | | WT | G | 5/12/20 | 1410 | | | | 4 | X | X | | | | | | | | X | X | X | X | X | F | | | | X | | | |
| 2 | EP15-WAT-BULK-01-051220 | | WT | G | 5/12/20 | 1330 | | | | 4 | X | X | | | | | | | | X | X | X | X | X | | | | | X | | | |
| 3 | EP18-WAT-BULK-01-051220 | | WT | G | 5/12/20 | 1145 | | | | 7 | X | X | X | | | | | | | X | X | X | X | X | X | X | X | X | X | | | |
| 4 | GL1-WAT-BULK-01-05220 | | WT | G | 5/12/20 | 1015 | | | | 7 | X | X | X | | | | | | | X | X | X | V | V | X | X | (V | XX | V | | | |
| 5 | EP18-SED-0-6-01-051220 | SED | WT | G | 5/12/20 | ~~1145~~ 1130 | | | | 2 | X | | | | | | | | | | | | | | X | | | | X | | | |
| 6 | GL1-SED-0-6-01-051220 | SED | WT | G | 5/12/20 | 1000 | | | | 2 | X | | | | | | | | | | | | | | X | | | | X | | | |
| 7 | | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| * - SHORTHOLD!! 48 hours | Amanda Lanning/AECOM | 5/12/20 | 1930 | | | | | | | |
| ** - bromide, chloride, fluoride, sulfate | Alex Sorgen/Aecom | 5/13/20 | 9:30 | | 5-13-20 | 930 | 2.7 | Y | N | Y |
| *** - Ca, Fe, Mg, K, Na, Zn | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 5/12/20



*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt (SCUR) - MN** | Document Revised: 27Mar2020 **Page 1 of 1** |
|---|---|---|
| | Document No.: **ENV-FRM-MIN4-0150 Rev.00** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt**

**Client Name:** AECOM

**Project #:** WO#: 10517718

PM: TS1 Due Date: 05/28/20

CLIENT: AECOM

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

**Tracking Number:**

**Custody Seal on Cooler/Box Present?** ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

**Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other: Pb **Temp Blank?** ☒ Yes ☐ No

**Thermometer:** ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

**Did Samples Originate in West Virginia?** ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 2.8 °C **Average Corrected Temp (no temp blank only):** ☐ See Exceptions

**Correction Factor:** -0.1 **Cooler Temp Corrected w/temp blank:** 2.7 °C ☐ 1 Container

**USDA Regulated Soil:** ( ☒ N/A, water sample/Other: ) **Date/Initials of Person Examining Contents:** SJS 5/13/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☒ Yes | ☐ No | | 1. |
| Chain of Custody Relinquished? | ☒ Yes | ☐ No | | 2. |
| Sampler Name and/or Signature on COC? | ☒ Yes | ☐ No | ☐ N/A | 3. |
| Samples Arrived within Hold Time? | ☒ Yes | ☐ No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☒ Yes | ☐ No | | 5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☒ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other |
| **Rush Turn Around Requested?** | ☐ Yes | ☒ No | | 6. |
| Sufficient Volume? | ☒ Yes | ☐ No | | 7. |
| Correct Containers Used? -Pace Containers Used? | ☒ Yes ☒ Yes | ☐ No ☐ No | | 8. |
| Containers Intact? | ☒ Yes | ☐ No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☒ N/A | 10. Is sediment visible in the dissolved container? ☐ Yes ☐ No |
| Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☒ Soil ☐ Oil ☐ Other | ☒ Yes | ☐ No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| All containers needing acid/base preservation have been checked? | ☒ Yes | ☐ No | ☐ N/A | 12. Sample # 3mL VI VI |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☒ Yes | ☐ No | ☐ N/A | ☐ NaOH ☒ $HNO_3$ ☒ $H_2SO_4$ ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☒ Yes | ☐ No | ☐ N/A | Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll 203815 \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☐ Yes | ☐ No | ☒ N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐ Yes | ☐ No | ☒ N/A | |
| Trip Blank Present? | ☐ Yes | ☐ No | ☒ N/A | 14. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☒ N/A | Pace Trip Blank Lot # (if purchased): |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

**Project Manager Review:** Jma Sloan **Date:** 5/13/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: SJS

WO# : 12143975

12143975

# Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 5/13/2020 Results Requested By: 5/28/2020

**Workorder:** 10517718 **Workorder Name:** 60618753 MPCA P1007

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: H2SO4 - DG9S | Preserved Containers: Unp - JGFU/JGCU | Preserved Containers: | | | | Requested Analysis: Anions by 300.0/9056*** | TOC by 9060A | TOC by SM5310C | Dry weight | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EP9-WAT-BULK-01-051220 | PS | 5/12/2020 14:10 | 10517718001 | Water | 3 | | | | | | | | X | | | | | | | | | | |
| 2 | EP15-WAT-BULK-01-051220 | PS | 5/12/2020 13:30 | 10517718002 | Water | 3 | | | | | | | | X | | | | | | | | | | |
| 3 | EP18-WAT-BULK-01-051220 | PS | 5/12/2020 11:45 | 10517718003 | Water | 3 | | | | | | | | X | | | | | | | | | | |
| 4 | GL1-WAT-BULK-01-051220 | PS | 5/12/2020 10:15 | 10517718004 | Water | 3 | | | | | | | | X | | | | | | | | | | |
| 5 | EP18-SED-0-6-01-051220 | PS | 5/12/2020 11:30 | 10517718005 | Solid | | 2 | | | | | X | X | | X | | | | | | | | | |
| 6 | GL1-SED-0-6-01-051220 | PS | 5/12/2020 10:00 | 10517718006 | Solid | | 2 | | | | | X | X | | X | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | Kyle Pace | 5/13/20 1635 | D Mathews | 5/14/20 1215 |
| 2 | | | | |
| 3 | | | | |

**Comments**

*** - bromide, chloride, fluoride, nitrate, nitrite, sulfate

**Cooler Temperature on Receipt** 0.5 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
*This chain of custody is considered complete as is since this information is available in the owner laboratory.*

| Pace Analytical | Document Name: Sample Condition Upon Receipt Form | Document Revised: 25Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: F-VM-C-001-rev.14 | Issuing Authority: Pace Virginia Minnesota Quality Office |

**Sample Condition Upon Receipt**

Client Name: Pace Mpls

Project #: WO#: 12143975

PM: LM2 Due Date: 05/29/20

CLIENT: PACE MPLS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: Temp Blank? ☑ Yes ☐ No

Thermometer Used: ☑ 140792808 Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read °C: 0.2 Cooler Temp Corrected °C: 0.5

Biological Tissue Frozen? ☐ Yes ☐ No ☑ NA

Temp should be above freezing to 6 °C Correction Factor: +0.3 Date and Initials of Person Examining Contents: BM 5/14/20

| | | | | Comments: |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Chain of Custody Filled Out? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Sampler Name and Signature on COC? | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours |
| **Short Hold Time Analysis (<72 hr)?** | ☑ Yes | ☐ No | ☐ N/A | 6. |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | ☐ N/A | 7. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 8. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved containers. |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT +SL | ☑ Yes | ☐ No | ☐ N/A | 12. |
| All containers needing acid/base preservation properly preserved? | ☑ Yes | ☐ No | ☐ N/A | 13. Note samples needing adjustment: |
| Headspace in Methyl Mercury Container | ☐ Yes | ☐ No | ☑ N/A | 14. |
| Headspace in VOA Vials ( >6mm)? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if purchased): | | | | |

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: Leah Morehouse Date: 05/15/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 03, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60618753 MPCA P1007
Pace Project No.: 10518105

Dear Andrew Tarara:

Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Virginia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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# CERTIFICATIONS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

**Pace Analytical Services Virginia Minnesota**

315 Chestnut Street, Virginia, MN 55792
Montana Certificate #CERT0103
Alaska Certification UST-107
Minnesota Dept of Health Certification #: 027-137-445
North Dakota Certification: # R-203
Wisconsin DNR Certification # : 998027470
WA Department of Ecology Lab ID# C1007



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## SAMPLE SUMMARY

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10518105001** | **RC22-WAT-BULK-01-051420** | Water | 05/14/20 09:50 | 05/15/20 08:45 |
| **10518105002** | **RC22-SED-WET-0-6-01-051420** | Solid | 05/14/20 10:15 | 05/15/20 08:45 |
| **10518105003** | **RC22-SED-WET-6-12-01-051420** | Solid | 05/14/20 10:20 | 05/15/20 08:45 |
| **10518105004** | **RC23-WAT-BULK-01-051420** | Water | 05/14/20 11:10 | 05/15/20 08:45 |
| **10518105005** | **RC23-SED-WET-0-6-01-051420** | Solid | 05/14/20 11:20 | 05/15/20 08:45 |
| **10518105006** | **RC23-SED-WET-6-12-01-051420** | Solid | 05/14/20 11:30 | 05/15/20 08:45 |

## REPORT OF LABORATORY ANALYSIS

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(612)607-1700

## SAMPLE ANALYTE COUNT

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **10518105001** | **RC22-WAT-BULK-01-051420** | EPA 180.1 | SH4 | 1 | PASI-M |
| | | SM 2320B | SH4 | 1 | PASI-M |
| | | SM 2540C | EPT | 1 | PASI-M |
| | | SM 2540D | EPT | 1 | PASI-M |
| | | SM 4500-H+B | SH4 | 1 | PASI-M |
| | | SM 5310 C-2011 | BE1 | 1 | PASI-V |
| **10518105002** | **RC22-SED-WET-0-6-01-051420** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9056A | CSD | 6 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| **10518105003** | **RC22-SED-WET-6-12-01-051420** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| **10518105004** | **RC23-WAT-BULK-01-051420** | EPA 180.1 | SH4 | 1 | PASI-M |
| | | SM 2320B | SH4 | 1 | PASI-M |
| | | SM 2540C | EPT | 1 | PASI-M |
| | | SM 2540D | EPT | 1 | PASI-M |
| | | SM 4500-H+B | SH4 | 1 | PASI-M |
| | | SM 5310 C-2011 | BE1 | 1 | PASI-V |
| **10518105005** | **RC23-SED-WET-0-6-01-051420** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |
| **10518105006** | **RC23-SED-WET-6-12-01-051420** | ASTM D 2974-13 (2013) | CSD | 1 | PASI-V |
| | | EPA 9060A | CSD | 4 | PASI-V |

PASI-M = Pace Analytical Services - Minneapolis
PASI-V = Pace Analytical Services - Virginia



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## SUMMARY OF DETECTION

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10518105001** | **RC22-WAT-BULK-01-051420** | | | | | |
| EPA 180.1 | Turbidity | 2.0 | NTU | 0.60 | 05/15/20 18:00 | |
| SM 2320B | Alkalinity, Total as CaCO3 | 166 | mg/L | 10.0 | 05/27/20 16:25 | |
| SM 2540C | Total Dissolved Solids | 648 | mg/L | 20.0 | 05/21/20 13:12 | |
| SM 4500-H+B | pH at 25 Degrees C | 7.8 | Std. Units | 0.10 | 05/29/20 19:15 | H6 |
| SM 5310 C-2011 | Total Organic Carbon | 6.4 | mg/L | 1.0 | 05/18/20 22:30 | |
| **10518105002** | **RC22-SED-WET-0-6-01-051420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 50.9 | % | 0.10 | 05/18/20 14:35 | |
| EPA 9056A | Chloride | 266 | mg/kg | 11.4 | 05/19/20 13:51 | |
| EPA 9056A | Sulfate | 68.7 | mg/kg | 19.0 | 05/19/20 13:51 | |
| EPA 9060A | RPD% | 0.16 | % | | 05/29/20 13:25 | |
| EPA 9060A | Total Organic Carbon | 38000 | mg/kg | 11700 | 05/29/20 13:10 | |
| EPA 9060A | Total Organic Carbon | 38100 | mg/kg | 11800 | 05/29/20 13:25 | |
| EPA 9060A | Mean Total Organic Carbon | 38100 | mg/kg | 11800 | 05/29/20 13:25 | |
| **10518105003** | **RC22-SED-WET-6-12-01-051420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 37.3 | % | 0.10 | 05/18/20 14:11 | |
| EPA 9060A | RPD% | 4.9 | % | | 05/29/20 13:36 | |
| EPA 9060A | Total Organic Carbon | 22900 | mg/kg | 11200 | 05/29/20 13:46 | |
| EPA 9060A | Total Organic Carbon | 21800 | mg/kg | 10800 | 05/29/20 13:36 | |
| EPA 9060A | Mean Total Organic Carbon | 22300 | mg/kg | 11000 | 05/29/20 13:36 | |
| **10518105004** | **RC23-WAT-BULK-01-051420** | | | | | |
| EPA 180.1 | Turbidity | 2.2 | NTU | 0.60 | 05/15/20 18:01 | |
| SM 2320B | Alkalinity, Total as CaCO3 | 132 | mg/L | 10.0 | 05/27/20 16:30 | |
| SM 2540C | Total Dissolved Solids | 606 | mg/L | 20.0 | 05/21/20 13:12 | |
| SM 4500-H+B | pH at 25 Degrees C | 7.7 | Std. Units | 0.10 | 05/29/20 19:17 | H6 |
| SM 5310 C-2011 | Total Organic Carbon | 7.1 | mg/L | 1.0 | 05/18/20 22:43 | |
| **10518105005** | **RC23-SED-WET-0-6-01-051420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 53.5 | % | 0.10 | 05/18/20 14:11 | |
| EPA 9060A | RPD% | 67.5 | % | | 05/29/20 14:10 | R1 |
| EPA 9060A | Total Organic Carbon | 20200 | mg/kg | 9790 | 05/29/20 14:18 | |
| EPA 9060A | Total Organic Carbon | 40700 | mg/kg | 10100 | 05/29/20 14:10 | |
| EPA 9060A | Mean Total Organic Carbon | 30400 | mg/kg | 9940 | 05/29/20 14:10 | |
| **10518105006** | **RC23-SED-WET-6-12-01-051420** | | | | | |
| ASTM D 2974-13 (2013) | Percent Moisture | 32.3 | % | 0.10 | 05/18/20 14:11 | |
| EPA 9060A | RPD% | 17.7 | % | | 05/29/20 14:33 | |
| EPA 9060A | Total Organic Carbon | 23900 | mg/kg | 7170 | 05/29/20 14:25 | |
| EPA 9060A | Total Organic Carbon | 28500 | mg/kg | 6770 | 05/29/20 14:33 | |
| EPA 9060A | Mean Total Organic Carbon | 26200 | mg/kg | 6970 | 05/29/20 14:33 | |

## REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **EPA 180.1**
**Description:** 180.1 Turbidity
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for EPA 180.1 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **SM 2320B**
**Description:** 2320B Alkalinity
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for SM 2320B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **SM 2540C**
**Description:** 2540C Total Dissolved Solids
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for SM 2540C by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **SM 2540D**
**Description:** 2540D Total Suspended Solids
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for SM 2540D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **SM 4500-H+B**
**Description:** 4500H+ pH, Electrometric
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for SM 4500-H+B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- RC22-WAT-BULK-01-051420 (Lab ID: 10518105001)
- RC23-WAT-BULK-01-051420 (Lab ID: 10518105004)

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **SM 5310 C-2011**
**Description:** 5310C TOC
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
2 samples were analyzed for SM 5310 C-2011 by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **EPA 9056A**
**Description:** 9056 IC Anions
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
1 sample was analyzed for EPA 9056A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 300.0 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Method:** **EPA 9060A**
**Description:** Total Organic Carbon
**Client:** AECOM MN ND
**Date:** June 03, 2020

**General Information:**
4 samples were analyzed for EPA 9060A by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Sample: RC22-WAT-BULK-01-051420** **Lab ID: 10518105001** Collected: 05/14/20 09:50 Received: 05/15/20 08:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **180.1 Turbidity** | Analytical Method: EPA 180.1<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Turbidity | **2.0** | NTU | 0.60 | 0.23 | 1 | | 05/15/20 18:00 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Alkalinity, Total as CaCO3 | **166** | mg/L | 10.0 | 2.0 | 1 | | 05/27/20 16:25 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Dissolved Solids | **648** | mg/L | 20.0 | 10.0 | 1 | | 05/21/20 13:12 | | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Suspended Solids | ND | mg/L | 10.0 | 5.0 | 1 | | 05/20/20 15:08 | | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **7.8** | Std. Units | 0.10 | 0.10 | 1 | | 05/29/20 19:15 | | H6 |
| **5310C TOC** | Analytical Method: SM 5310 C-2011<br>Pace Analytical Services - Virginia | | | | | | | | |
| Total Organic Carbon | **6.4** | mg/L | 1.0 | 0.32 | 1 | | 05/18/20 22:30 | 7440-44-0 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Sample: RC22-SED-WET-0-6-01-051420** **Lab ID: 10518105002** Collected: 05/14/20 10:15 Received: 05/15/20 08:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **50.9** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:35 | | |
| **9056 IC Anions** | Analytical Method: EPA 9056A Preparation Method: EPA 300.0 Pace Analytical Services - Virginia | | | | | | | | |
| Bromide | ND | mg/kg | 1.9 | 0.54 | 1 | 05/19/20 10:38 | 05/19/20 13:51 | 24959-67-9 | |
| Chloride | **266** | mg/kg | 11.4 | 4.7 | 1 | 05/19/20 10:38 | 05/19/20 13:51 | 16887-00-6 | |
| Fluoride | ND | mg/kg | 1.4 | 0.62 | 1 | 05/19/20 10:38 | 05/19/20 13:51 | 16984-48-8 | |
| Nitrate as N | ND | mg/kg | 1.9 | 0.71 | 1 | 05/19/20 10:38 | 05/19/20 13:51 | 14797-55-8 | |
| Nitrite as N | ND | mg/kg | 1.9 | 0.32 | 1 | 05/19/20 10:38 | 05/19/20 13:51 | 14797-65-0 | |
| Sulfate | **68.7** | mg/kg | 19.0 | 4.3 | 1 | 05/19/20 10:38 | 05/19/20 13:51 | 14808-79-8 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **0.16** | % | | | 1 | | 05/29/20 13:25 | | |
| Total Organic Carbon | **38000** | mg/kg | 11700 | 2880 | 1 | | 05/29/20 13:10 | 7440-44-0 | |
| Total Organic Carbon | **38100** | mg/kg | 11800 | 2910 | 1 | | 05/29/20 13:25 | 7440-44-0 | |
| Mean Total Organic Carbon | **38100** | mg/kg | 11800 | 2900 | 1 | | 05/29/20 13:25 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Sample: RC22-SED-WET-6-12-01-051420** **Lab ID: 10518105003** Collected: 05/14/20 10:20 Received: 05/15/20 08:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **37.3** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:11 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **4.9** | % | | | 1 | | 05/29/20 13:36 | | |
| Total Organic Carbon | **22900** | mg/kg | 11200 | 2760 | 1 | | 05/29/20 13:46 | 7440-44-0 | |
| Total Organic Carbon | **21800** | mg/kg | 10800 | 2680 | 1 | | 05/29/20 13:36 | 7440-44-0 | |
| Mean Total Organic Carbon | **22300** | mg/kg | 11000 | 2720 | 1 | | 05/29/20 13:36 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Sample: RC23-WAT-BULK-01-051420** **Lab ID: 10518105004** Collected: 05/14/20 11:10 Received: 05/15/20 08:45 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **180.1 Turbidity** | Analytical Method: EPA 180.1<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Turbidity | **2.2** | NTU | 0.60 | 0.23 | 1 | | 05/15/20 18:01 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Alkalinity, Total as CaCO3 | **132** | mg/L | 10.0 | 2.0 | 1 | | 05/27/20 16:30 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Dissolved Solids | **606** | mg/L | 20.0 | 10.0 | 1 | | 05/21/20 13:12 | | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Total Suspended Solids | ND | mg/L | 10.0 | 5.0 | 1 | | 05/20/20 15:08 | | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **7.7** | Std. Units | 0.10 | 0.10 | 1 | | 05/29/20 19:17 | | H6 |
| **5310C TOC** | Analytical Method: SM 5310 C-2011<br>Pace Analytical Services - Virginia | | | | | | | | |
| Total Organic Carbon | **7.1** | mg/L | 1.0 | 0.32 | 1 | | 05/18/20 22:43 | 7440-44-0 | |



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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Sample: RC23-SED-WET-0-6-01-051420** **Lab ID: 10518105005** Collected: 05/14/20 11:20 Received: 05/15/20 08:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **53.5** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:11 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **67.5** | % | | | 1 | | 05/29/20 14:10 | | R1 |
| Total Organic Carbon | **20200** | mg/kg | 9790 | 2410 | 1 | | 05/29/20 14:18 | 7440-44-0 | |
| Total Organic Carbon | **40700** | mg/kg | 10100 | 2490 | 1 | | 05/29/20 14:10 | 7440-44-0 | |
| Mean Total Organic Carbon | **30400** | mg/kg | 9940 | 2450 | 1 | | 05/29/20 14:10 | 7440-44-0 | |

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## ANALYTICAL RESULTS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

**Sample: RC23-SED-WET-6-12-01-051420** **Lab ID: 10518105006** Collected: 05/14/20 11:30 Received: 05/15/20 08:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Dry Weight** | Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Virginia | | | | | | | | |
| Percent Moisture | **32.3** | % | 0.10 | 0.10 | 1 | | 05/18/20 14:11 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060A Pace Analytical Services - Virginia | | | | | | | | |
| RPD% | **17.7** | % | | | 1 | | 05/29/20 14:33 | | |
| Total Organic Carbon | **23900** | mg/kg | 7170 | 1770 | 1 | | 05/29/20 14:25 | 7440-44-0 | |
| Total Organic Carbon | **28500** | mg/kg | 6770 | 1670 | 1 | | 05/29/20 14:33 | 7440-44-0 | |
| Mean Total Organic Carbon | **26200** | mg/kg | 6970 | 1720 | 1 | | 05/29/20 14:33 | 7440-44-0 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 189302
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10518105003, 10518105005, 10518105006

SAMPLE DUPLICATE: 744998

| Parameter | Units | 10518018004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 12.8 | 11.7 | 8 | 5 | D6 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 189303
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Virginia

Associated Lab Samples: 10518105002

SAMPLE DUPLICATE: 744999

| Parameter | Units | 10517718006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 40.4 | 42.9 | 6 | 5 | D6 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 675683
QC Batch Method: EPA 180.1
Analysis Method: EPA 180.1
Analysis Description: 180.1 Turbidity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10518105001, 10518105004

METHOD BLANK: 3617619 Matrix: Water
Associated Lab Samples: 10518105001, 10518105004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Turbidity | NTU | ND | 0.60 | 0.23 | 05/15/20 17:57 | |

LABORATORY CONTROL SAMPLE: 3617620

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Turbidity | NTU | 10.1 | 9.9 | 98 | 90-110 | |

SAMPLE DUPLICATE: 3617621

| Parameter | Units | 10518013001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Turbidity | NTU | 0.28J | .25J | | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 677074
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10518105001, 10518105004

METHOD BLANK: 3624483 Matrix: Water
Associated Lab Samples: 10518105001, 10518105004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 10.0 | 2.0 | 05/27/20 14:52 | |

LABORATORY CONTROL SAMPLE & LCSD: 3624484 3624485

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 40 | 42.6 | 42.5 | 106 | 106 | 90-110 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3624486 3624487

| Parameter | Units | 10518199005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 158 | 40 | 40 | 201 | 206 | 107 | 120 | 80-120 | 3 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3624488 3624489

| Parameter | Units | 10518134001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 273 | 40 | 40 | 317 | 319 | 109 | 115 | 80-120 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 676587
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10518105001, 10518105004

METHOD BLANK: 3622008 Matrix: Water
Associated Lab Samples: 10518105001, 10518105004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 10.0 | 5.0 | 05/21/20 13:12 | |

LABORATORY CONTROL SAMPLE: 3622009

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 1000 | 1020 | 102 | 80-120 | |

SAMPLE DUPLICATE: 3622010

| Parameter | Units | 10518105001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 648 | 628 | 3 | 5 | |

SAMPLE DUPLICATE: 3622011

| Parameter | Units | 10518105004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 606 | 602 | 1 | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 676304
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10518105001, 10518105004

METHOD BLANK: 3620518 Matrix: Water
Associated Lab Samples: 10518105001, 10518105004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | ND | 10.0 | 5.0 | 05/20/20 15:08 | |

LABORATORY CONTROL SAMPLE: 3620519

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | 100 | 90.0 | 90 | 80-120 | |

SAMPLE DUPLICATE: 3620520

| Parameter | Units | 10518157002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | <10.0 | ND | | 5 | |

SAMPLE DUPLICATE: 3620521

| Parameter | Units | 10518105004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | ND | 7J | | 5 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 678206
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10518105001, 10518105004

LABORATORY CONTROL SAMPLE: 3629814

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 5 | 5.0 | 100 | 98-102 | H6 |

SAMPLE DUPLICATE: 3629815

| Parameter | Units | 10518134001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 7.5 | 7.5 | 1 | 3 | H6 |

SAMPLE DUPLICATE: 3629816

| Parameter | Units | 10518199005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 8.0 | 8.0 | 0 | 3 | H6 |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 189320
QC Batch Method: SM 5310 C-2011
Analysis Method: SM 5310 C-2011
Analysis Description: 5310C TOC
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10518105001, 10518105004

METHOD BLANK: 745044 Matrix: Water
Associated Lab Samples: 10518105001, 10518105004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | ND | 1.0 | 0.32 | 05/18/20 19:53 | |

LABORATORY CONTROL SAMPLE: 745045

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 25 | 25.0 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 745046 745047

| Parameter | Units | 10517689001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 147 | 250 | 250 | 385 | 377 | 95 | 92 | 80-120 | 2 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 745048 745049

| Parameter | Units | 10517846001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 113 | 250 | 250 | 356 | 357 | 97 | 97 | 80-120 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 189353
QC Batch Method: EPA 300.0
Analysis Method: EPA 9056A
Analysis Description: 9056 IC Anions, Soil
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10518105002

METHOD BLANK: 745142 Matrix: Solid
Associated Lab Samples: 10518105002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 2.0 | 0.56 | 05/19/20 11:24 | |
| Chloride | mg/kg | ND | 12.0 | 5.0 | 05/19/20 11:24 | |
| Fluoride | mg/kg | ND | 1.5 | 0.65 | 05/19/20 11:24 | |
| Nitrate as N | mg/kg | ND | 2.0 | 0.75 | 05/19/20 11:24 | |
| Nitrite as N | mg/kg | ND | 2.0 | 0.33 | 05/19/20 11:24 | |
| Sulfate | mg/kg | ND | 19.9 | 4.5 | 05/19/20 11:24 | |

LABORATORY CONTROL SAMPLE: 745141

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/kg | 50.7 | 49.8 | 98 | 80-120 | |
| Chloride | mg/kg | 507 | 523 | 103 | 80-120 | |
| Fluoride | mg/kg | 50.7 | 51.5 | 102 | 80-120 | |
| Nitrate as N | mg/kg | 50.7 | 51.7 | 102 | 80-120 | |
| Nitrite as N | mg/kg | 50.7 | 53.2 | 105 | 80-120 | |
| Sulfate | mg/kg | 507 | 526 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 745143 745144

| Parameter | Units | 10515302010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/kg | ND | 50.7 | 47.9 | 50.5 | 47.6 | 100 | 99 | 80-120 | 6 | 20 | H3 |
| Chloride | mg/kg | 12.0J | 507 | 479 | 537 | 506 | 104 | 103 | 80-120 | 6 | 20 | H3 |
| Fluoride | mg/kg | 1.6 | 50.7 | 47.9 | 43.3 | 39.8 | 82 | 80 | 80-120 | 9 | 20 | H3 |
| Nitrate as N | mg/kg | 0.85J | 50.7 | 47.9 | 52.7 | 49.5 | 102 | 102 | 80-120 | 6 | 20 | H3 |
| Nitrite as N | mg/kg | 0.50J | 50.7 | 47.9 | 54.2 | 51.0 | 106 | 105 | 80-120 | 6 | 20 | H3 |
| Sulfate | mg/kg | 7.0J | 507 | 479 | 540 | 509 | 105 | 105 | 80-120 | 6 | 20 | H3 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

QC Batch: 189983 — Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A — Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10518105002, 10518105003, 10518105005, 10518105006

METHOD BLANK: 747476 Matrix: Solid
Associated Lab Samples: 10518105002, 10518105003, 10518105005, 10518105006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 604 | 149 | 05/29/20 12:47 | |

LABORATORY CONTROL SAMPLE: 747477

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 3280 | 2600 | 79 | 49-151 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 748116 748117

| Parameter | Units | 10518018002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 570J | 6040 | 6040 | 6240 | 6460 | 94 | 98 | 70-130 | 4 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 748118 748119

| Parameter | Units | 10518018003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | <604 | 6040 | 6050 | 6000 | 6070 | 97 | 99 | 70-130 | 1 | 25 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## WORKORDER QUALIFIERS

WO: 10518105

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

## ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

R1 RPD value was outside control limits.



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# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 MPCA P1007
Pace Project No.: 10518105

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10518105002** | **RC22-SED-WET-0-6-01-051420** | ASTM D 2974-13 (2013) | 189303 | | |
| **10518105003** | **RC22-SED-WET-6-12-01-051420** | ASTM D 2974-13 (2013) | 189302 | | |
| **10518105005** | **RC23-SED-WET-0-6-01-051420** | ASTM D 2974-13 (2013) | 189302 | | |
| **10518105006** | **RC23-SED-WET-6-12-01-051420** | ASTM D 2974-13 (2013) | 189302 | | |
| **10518105001** | **RC22-WAT-BULK-01-051420** | EPA 180.1 | 675683 | | |
| **10518105004** | **RC23-WAT-BULK-01-051420** | EPA 180.1 | 675683 | | |
| **10518105001** | **RC22-WAT-BULK-01-051420** | SM 2320B | 677074 | | |
| **10518105004** | **RC23-WAT-BULK-01-051420** | SM 2320B | 677074 | | |
| **10518105001** | **RC22-WAT-BULK-01-051420** | SM 2540C | 676587 | | |
| **10518105004** | **RC23-WAT-BULK-01-051420** | SM 2540C | 676587 | | |
| **10518105001** | **RC22-WAT-BULK-01-051420** | SM 2540D | 676304 | | |
| **10518105004** | **RC23-WAT-BULK-01-051420** | SM 2540D | 676304 | | |
| **10518105001** | **RC22-WAT-BULK-01-051420** | SM 4500-H+B | 678206 | | |
| **10518105004** | **RC23-WAT-BULK-01-051420** | SM 4500-H+B | 678206 | | |
| **10518105001** | **RC22-WAT-BULK-01-051420** | SM 5310 C-2011 | 189320 | | |
| **10518105004** | **RC23-WAT-BULK-01-051420** | SM 5310 C-2011 | 189320 | | |
| **10518105002** | **RC22-SED-WET-0-6-01-051420** | EPA 300.0 | 189353 | EPA 9056A | 189358 |
| **10518105002** | **RC22-SED-WET-0-6-01-051420** | EPA 9060A | 189983 | | |
| **10518105002** | **RC22-SED-WET-0-6-01-051420** | EPA 9060A | 189984 | | |
| **10518105003** | **RC22-SED-WET-6-12-01-051420** | EPA 9060A | 189983 | | |
| **10518105003** | **RC22-SED-WET-6-12-01-051420** | EPA 9060A | 189984 | | |
| **10518105005** | **RC23-SED-WET-0-6-01-051420** | EPA 9060A | 189983 | | |
| **10518105005** | **RC23-SED-WET-0-6-01-051420** | EPA 9060A | 189984 | | |
| **10518105006** | **RC23-SED-WET-6-12-01-051420** | EPA 9060A | 189983 | | |
| **10518105006** | **RC23-SED-WET-6-12-01-051420** | EPA 9060A | 189984 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | AECOM | Report To: | Andrew Tarara | Attention: | USAPImaging@aecom.com |
| Address: | 800 LaSalle Ave, Suite 1100 | Copy To: | Amanda Lanning | Company Name: | AECOM |
| | Minneapolis, MN 55402 | | | Address: | |
| Email To: | andrew.tarara@aecom.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 612-376-2452 Fax: | Project Name: | MPCA P1007 | Pace Project Manager: | Tina Soltani, 612-607-6384 |
| Requested Due Date/TAT: | 10-day Standard | Project Number: | 60618753 | Pace Profile #: | 22815 |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

**Requested Analysis Filtered (Y/N)**

Section D Required Client Information

Valid Matrix Codes

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

| ITEM # | SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COMPOSITE START TIME | COMPOSITE END/GRAB DATE | COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Y/N | Analysis Test: Turbidity by 180.1* | pH by 4500 | TDS by 2540C | TSS by 2540D | Alkalinity by 2320 | Anions by 300.0** | Total Phosphorus by 4500 | Nitrate + Nitrite by 353.2 | Total Metals*** | TOC by SM5310C | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC22-WAT-BULK-01-051420 | WT | G | 5/14/20 | 0950 | | | | 4 | X | X | | | | | | | | X | X | X | X | X | | | | | X | | 001 |
| 2 | RC22-SED-WET-0-6-01-051420 | WT | G | 5/14/20 | 1015 | | | | 2 | X | X | | | | | | | | | | | | | X | | | | X | | 002 |
| 3 | RC22-SED-WET-6-12-01-051420 | WT | G | 5/14/20 | 1020 | | | | 1 | X | X | | | | | | | | | | | | | | | | | X | | 003 |
| 4 | RC23-WAT-BULK-01-051420 | WT | G | 5/14/20 | 1110 | | | | 4 | X | X | | | | | | | | X | X | X | X | X | | | | | X | | 004 |
| 5 | RC23-SED-WET-0-6-01-051420 | WT | G | 5/14/20 | 1120 | | | | 1 | X | X | | | | | | | | | | | | | | | | | X | | 005 |
| 6 | RC23-SED-WET-6-12-01-051420 | WT | G | 5/14/20 | 1130 | | | | 1 | X | X | | | | | | | | | | | | | | | | | X | | 006 |
| 7 | ~~RC23-SED-DD~~ | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | WT | G | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**WO# : 10518105**

10518105

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| * - SHORTHOLD!! 43 hours | Amanda Lanning / AECOM | 5/14/20 | 1500 | | | | | | | |
| ** - bromide, chloride, fluoride, sulfate | Alex Senjem / AECOM | 5/15/20 | 0845 | Pace | 5/15/20 | 8:45 | 7.4 | ✓ | N | Y |
| *** - Ca, Fe, Mg, K, Na, Zn | | | | | | | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Lanning

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 5/14/20



*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt (SCUR) - MN** | Document Revised: 27Mar2020 **Page 1 of 1** |
|---|---|---|
| | Document No.: **ENV-FRM-MIN4-0150 Rev.00** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt** **Client Name:** AECOM **Project #:** WO# : 10518105

PM: TS1 Due Date: 06/01/20

CLIENT: AECOM

**Courier:** ☐Fed Ex ☐UPS ☐USPS ☒Client ☐Pace ☐SpeeDee ☐Commercial **See Exceptions** ☐

**Tracking Number:** _____

**Custody Seal on Cooler/Box Present?** ☐Yes ☒No **Seals Intact?** ☐Yes ☒No **Biological Tissue Frozen?** ☐Yes ☐No ☒N/A

**Packing Material:** ☒Bubble Wrap ☒Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☒Yes ☐No

**Thermometer:** ☐T1(0461) ☐T2(1336) ☐T3(0459) ☐T4(0254) ☒T5(0489) **Type of Ice:** ☒Wet ☐Blue ☐None ☐Dry ☐Melted

**Did Samples Originate in West Virginia?** ☐Yes ☒No **Were All Container Temps Taken?** ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 7.5 °C **Average Corrected Temp (no temp blank only):** ☐See Exceptions

**Correction Factor:** -0.1 **Cooler Temp Corrected w/temp blank :** 7.4 °C _____ °C ☐1 Container

**USDA Regulated Soil:** (☒N/A, water sample/Other:_____) **Date/Initials of Person Examining Contents:** CEC 5/15/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☒No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☒No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☒Yes | ☐No | | 1. |
| Chain of Custody Relinquished? | ☒Yes | ☐No | | 2. |
| Sampler Name and/or Signature on COC? | ☒Yes | ☐No | ☐N/A | 3. |
| Samples Arrived within Hold Time? | ☒Yes | ☐No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☒Yes | ☐No | | 5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☒Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____ |
| **Rush Turn Around Time Requested?** | ☐Yes | ☒No | | 6. |
| Sufficient Volume? | ☒Yes | ☐No | | 7. |
| Correct Containers Used? -Pace Containers Used? | ☒Yes ☒Yes | ☐No ☐No | | 8. |
| Containers Intact? | ☒Yes | ☐No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐Yes | ☐No | ☒N/A | 10. Is sediment visible in the dissolved container? ☐Yes ☐No |
| Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☒Soil ☐Oil ☐Other_____ | ☒Yes | ☐No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| All containers needing acid/base preservation have been checked? | ☐Yes | ☐No | ☒N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☐Yes | ☐No | ☒N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☒Yes | ☐No | ☐N/A | Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☐Yes | ☐No | ☒N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐Yes | ☐No | ☒N/A | |
| Trip Blank Present? | ☐Yes | ☐No | ☒N/A | 14. |
| Trip Blank Custody Seals Present? | ☐Yes | ☐No | ☒N/A | Pace Trip Blank Lot # (if purchased):_____ |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐Yes ☐No

Person Contacted: Andrew Tarara, Amanda Lanning Date/Time: 5/15/20

Comments/Resolution: Client notified of samples arriving out of temp.

**Project Manager Review:** _____ **Date:** 5/15/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CEC (2)

WO# : 12144072

12144072

# Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN-ADMIN

Cert. Needed: ☒ Yes ☐

**Workorder:** 10518105 **Workorder Name:** 60618753 MPCA P1007 **Owner Received Date:** 5/15/2020 **Results Requested By:** 6/1/2020

| Report To | Subcontract To |
|---|---|
| Tina Soltani<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612) 607-6384 | Pace Analytical Virginia MN<br>315 Chestnut Street<br>Virginia, MN 55792<br>Phone (218)742-1042 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: H2SO4 - DG9S | Preserved Containers: Unp. - JGFU/JGCU | Requested Analysis: Anions by 300.0/9056*** | Requested Analysis: TOC by 9060A | Requested Analysis: TOC by SM5310C | Requested Analysis: Dry weight | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RC22-WAT-BULK-01-051420 | PS | 5/14/2020 09:50 | 10518105001 | Water | 3 | | | | X | | |
| 2 | RC22-SED-WET-0-6-01-051420 | PS | 5/14/2020 10:15 | 10518105002 | Solid | | 2 | X | X | | X | |
| 3 | RC22-SED-WET-6-12-01-051420 | PS | 5/14/2020 10:20 | 10518105003 | Solid | | 1 | | X | | X | |
| 4 | RC23-WAT-BULK-01-051420 | PS | 5/14/2020 11:10 | 10518105004 | Water | 3 | | | | X | | |
| 5 | RC23-SED-WET-0-6-01-051420 | PS | 5/14/2020 11:20 | 10518105005 | Solid | | 1 | | X | | X | |
| 6 | RC23-SED-WET-6-12-01-051420 | PS | 5/14/2020 11:30 | 10518105006 | Solid | | 1 | | X | | X | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | PACE | 5.15.20 1720 | RLC 5/15/20 | 1815 |
| 2 | RLC 5/15/20 | 2245 | B Mathews 5/18/20 | 0700 |
| 3 | | | | |

**Comments**

Anions - bromide, chloride, fluoride, nitrate, nitrite, sulfate

**Cooler Temperature on Receipt** 1.0 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

| Pace Analytical | Document Name: Sample Condition Upon Receipt Form | Document Revised: 25Feb2020 Page 1 of 1 |
|---|---|---|
| | Document No.: F-VM-C-001-rev.14 | Issuing Authority: Pace Virginia Minnesota Quality Office |

**Sample Condition Upon Receipt**

Client Name: Pace MN

Project #: **WO#: 12144072**

**PM: LM2** **Due Date: 06/02/20**

**CLIENT: PACE MPLS**

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 140792808 Type of Ice: ☐ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read °C: 0.7 Cooler Temp Corrected °C: 1.0 Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6 °C Correction Factor: 0.3 Date and Initials of Person Examining Contents: 5/15/20 DL

Comments: BM 5/18/20

| | | | | |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Chain of Custody Filled Out? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Sampler Name and Signature on COC? | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours |
| **Short Hold Time Analysis (<72 hr)?** | ☑ Yes | ☐ No | ☐ N/A | 6. |
| **Rush Turn Around Time Requested?** | ☑ Yes | ☐ No | ☐ N/A | 7. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 8. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved containers. |
| Sample Labels Match COC? | ☑ Yes | ☐ No | ☐ N/A | 12. |
| -Includes Date/Time/ID/Analysis Matrix: SL WT | | | | |
| All containers needing acid/base preservation properly preserved? | ☑ Yes | ☐ No | ☐ N/A | 13. Note samples needing adjustment: |
| Headspace in Methyl Mercury Container | ☐ Yes | ☐ No | ☑ N/A | 14. |
| Headspace in VOA Vials ( >6mm)? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if purchased): _____ | | | | |

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

**Project Manager Review:** Leah Morehouse **Date:** 05/18/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

# APPENDIX T
# MVTL LABORATORY REPORTS

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC17-SED-BANK-EAST
0-3-01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19441

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.7** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **3.0** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **11** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **6** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **107** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1278** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **264** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **150** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **1.6** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **9.5** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
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MEMBER
ACIL

Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC17-SED-BANK-EAST
3-6-01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19442

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.4** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **2.9** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **16** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **10** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **65** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1410** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **262** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **115** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **2.6** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **9.9** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC17-SED-BANK-WEST
0-3-01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19443

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.5** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **2.4** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **16** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **8** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **63** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1320** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **256** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **120** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **1.9** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **9.4** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
ACIL

Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC17-SED-BANK-WEST
3-6-01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19444

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.3** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **2.0** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **20** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **12** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **62** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1248** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **248** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **102** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **1.7** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **8.9** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC18-SED-COMP-0-3
01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19445

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.1** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **3.1** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **22** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **11** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **54** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **969** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **176** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **105** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **2.1** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **6.9** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
ACIL

Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC21-SED-COMP-0-3
01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19446

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.8** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **15** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **8** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **55** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1006** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **214** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **94** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.9** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **7.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
ACIL

Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP21-SED-FOAM-0-6
01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19447

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **8.4** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.7** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **6** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **4** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **58** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1752** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **249** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **37** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **11.1** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 23 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: FC1-SED-0-3
01-042320
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19448

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.5** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.0** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **4.4** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **18** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **17** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **72** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1639** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **286** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **113** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **1.8** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **11.2** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
ACIL

Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC12-SED-12-18
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19449

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.9** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **4** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **5** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **81** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1486** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **343** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **188** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **11.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC12-SED-30-36
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19450

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.3** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **1.0** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **3** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **4** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **102** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1942** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **477** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **203** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **14.8** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC5-SED-0-4
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19451

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.4** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.0** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **3.1** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **22** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **30** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **39** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1203** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **178** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **163** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **4.0** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **8.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC5-SED-4-6
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19452

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.0** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.2** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **1.8** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **26** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **16** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **39** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1265** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **189** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **162** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **3.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **8.7** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Work Order #: 202011-00431
Account #: 019403

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Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC5-SED-22-26
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19453

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.6** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.8** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **22** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **12** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **30** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **748** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **125** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **158** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.6** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **5.5** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Account #: 019403

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Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC5-SED-WET-3-12
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19454

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.0** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.1** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **11.5** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **5** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **38** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **40** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1983** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **291** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **137** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **11.3** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **13.0** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Account #: 019403

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Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC5-SED-WET-12-18
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19455

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.0** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.2** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **1.4** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **10** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **13** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **57** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1490** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **308** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **111** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **2.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **10.6** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Account #: 019403

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Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC6-SED-WET-0-6
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19456

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.3** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **6.8** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **19.7** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.5** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **13** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **11** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **79** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1869** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **329** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **272** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **9.6** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **15.4** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

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Date Received: 29 Apr 2020

Date Sampled: 24 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC6-SED-WET-12-18
01-042420
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19457

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.0** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.1** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **4.2** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.3** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **28** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **22** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **80** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **2262** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **408** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **279** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **11.6** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **16.1** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Work Order #: 202011-00431
Account #: 019403

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Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC3-SED-WET-0-6
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19458

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.1** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **6.9** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **55** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **14** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **46** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1234** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **198** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **139** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **8.0** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **8.5** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

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Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC3-SED-WET-12-18
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19459

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **8.0** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **3.3** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **16** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **6** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **49** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1122** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **190** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **541** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **5.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **9.6** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Work Order #: 202011-00431
Account #: 019403

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SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC3A-SED-WET-0-6
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19460

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.6** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **6.8** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **11.2** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.6** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **28** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **24** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **44** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1980** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **293** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **431** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **9.6** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **16.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

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SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: RC12-SED-0-6
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19461

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.9** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **26** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **12** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **36** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **903** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **156** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **128** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **2.4** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **6.4** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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Account #: 019403

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MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP21-SED-0-6
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19462

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **8.2** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.5** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **5** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **3** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **25** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **958** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **135** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **54** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.3** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **6.2** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP17-SED-WET-0-6
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19463

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.0** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **6.8** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **12.4** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **14** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **7** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **34** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1154** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **208** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **139** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **1.9** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **10.2** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 2000 for 6 inch plow depth**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP17-SED-WET-6-12
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19464

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.2** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **6.7** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **6.8** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **18** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **7** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **36** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1441** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **263** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **133** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **2.1** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **13.0** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP17-SED-0-6
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19465

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.1** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **6.5** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **9.6** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **24** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **12** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **28** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **1308** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **246** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **139** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **2.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **14.2** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP19-SED-WET-0-6
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19466

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.9** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.8** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **14** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **6** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **18** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **399** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **76** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **51** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.5** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **2.9** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP19-SED-WET-6-12
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19467

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.7** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.6** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **16** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **5** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **19** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **334** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **65** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **62** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.3** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **2.5** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP19-SED-24-30
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19468

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.5** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.7** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **10** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **4** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **18** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **313** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **63** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **68** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.3** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **2.4** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
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Report Date: 1 May 2020
Work Order #: 202011-00431
Account #: 019403

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 29 Apr 2020

Date Sampled: 25 Apr 2020

Project Number: P1007/60618753

Soil Sample Identification: EP19-SED-36-42
01-042520
Sample Type: P1007/60618753
Soil Laboratory Number: 20-A19469

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.0** | **units** | **30 Apr 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **30 Apr 2020** | **BBH** |
| **Organic Matter** | **0.3** | **%** | **30 Apr 2020** | **SLL** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **30 Apr 2020** | **BBH** |
| **Bray-I Phosphorus** | **12** | **ppm** | **30 Apr 2020** | **SLL** |
| **Olsen Phosphorus** | **5** | **ppm** | **30 Apr 2020** | **SLL** |
| **Potassium** | **22** | **ppm** | **30 Apr 2020** | **BWB** |
| **Calcium** | **300** | **ppm** | **30 Apr 2020** | **BWB** |
| **Magnesium** | **64** | **ppm** | **30 Apr 2020** | **BWB** |
| **Sodium** | **50** | **ppm** | **30 Apr 2020** | **BWB** |
| **Zinc** | **0.2** | **ppm** | **30 Apr 2020** | **SLL** |
| **CEC Summation** | **2.3** | **me/100 g** | | **Calculated** |
| **Pickup Charge** | **20.00 1** | | **1 May 2020** | **LAH** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
ACIL

Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 5 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: EP21-SED-BEACH-FOAM -01-050520
Sample Type: SOIL
Soil Laboratory Number: 20-A58973

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.7** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **0.2** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **10** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **4** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **15** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **337** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **60** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **13** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **3.2** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **2.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 12 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: EP18-SED-0-6
-01-051220
Sample Type: SOIL
Soil Laboratory Number: 20-A58974

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.2** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **6.7** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **15.2** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.4** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **22** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **86** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **1383** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **241** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **107** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **2.0** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **12.6** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 12 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: GL1-SED-0-6
-01-051220
Sample Type: SOIL
Soil Laboratory Number: 20-A58975

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **5.7** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **6.6** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **2.2** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **21** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **13** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **99** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **630** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **114** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **46** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **1.8** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **8.5** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 2000 for 6 inch plow depth**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
ACIL

Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 14 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: RC22-SED-0-6
-01-051420
Sample Type: SOIL
Soil Laboratory Number: 20-A58976

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.7** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **6.8** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **6.7** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.5** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **3** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **33** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **73** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **2175** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **368** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **209** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **6.2** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **17.0** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 14 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: RC22-SED-6-12 -01-051420
Sample Type: SOIL
Soil Laboratory Number: 20-A58977

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.0** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **7.0** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **4.7** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.3** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **10** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **34** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **76** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **2198** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **398** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **209** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **6.6** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **15.4** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 14 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: RC23-SED-0-6
-01-051420
Sample Type: SOIL
Soil Laboratory Number: 20-A58978

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.4** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **7.0** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **5.8** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.5** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **14** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **21** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **168** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **3663** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **348** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **239** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **2.4** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **22.6** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 14 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: RC23-SED-6-12 -01-051420
Sample Type: SOIL
Soil Laboratory Number: 20-A58979

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.7** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **6.9** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **4.3** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.4** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **27** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **25** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **134** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **2404** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **255** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **173** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **3.7** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **16.2** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 26 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: MW7A-SOIL-10-12
-01-052620
Sample Type: SOIL
Soil Laboratory Number: 20-A58980

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.3** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **0.2** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **10** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **21** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **513** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **106** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **18** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **0.2** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **3.6** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 26 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: MW7A-SOIL-12-14 -01-052620
Sample Type: SOIL
Soil Laboratory Number: 20-A58981

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.4** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **7.3** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **0.5** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **18** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **15** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **31** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **896** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **186** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **58** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **1.4** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **6.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Date Received: 4 Jun 2020

Date Sampled: 26 May 2020

Project Number: P1007-60618753

Soil Sample Identification: MW7A-SOIL-COMP-26-32
-01-052620
Sample Type: SOIL
Soil Laboratory Number: 20-A58982

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **8.0** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **0.1** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **3** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **3** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **18** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **320** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **71** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **18** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **0.2** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **2.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 9 Jun 2020
Work Order #: 202011-00918
Account #: 019403
Purchase Order Number: P1007-60618753

Date Received: 4 Jun 2020

Date Sampled: 26 May 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007-60618753

Soil Sample Identification: MW7A-SOIL-COMP-46-50-01-052620
Sample Type: SOIL
Soil Laboratory Number: 20-A58983

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **8.3** | **units** | **8 Jun 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **8 Jun 2020** | **BBH** |
| **Organic Matter** | **0.3** | **%** | **5 Jun 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **8 Jun 2020** | **BBH** |
| **Bray-I Phosphorus** | **3** | **ppm** | **5 Jun 2020** | **BBH** |
| **Olsen Phosphorus** | **3** | **ppm** | **5 Jun 2020** | **BBH** |
| **Potassium** | **49** | **ppm** | **5 Jun 2020** | **LK** |
| **Calcium** | **1406** | **ppm** | **5 Jun 2020** | **LK** |
| **Magnesium** | **125** | **ppm** | **5 Jun 2020** | **LK** |
| **Sodium** | **21** | **ppm** | **5 Jun 2020** | **LK** |
| **Zinc** | **0.4** | **ppm** | **5 Jun 2020** | **SLL** |
| **CEC Summation** | **8.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP16-SED-0-6
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20429

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.4** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **0.9** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **12** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **27** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **549** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **120** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **53** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **0.7** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **4.0** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
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Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP16-SED-6-18
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20430

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.7** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **0.4** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **12** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **40** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **470** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **118** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **67** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **0.4** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **3.7** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

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MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP16-SED-30-36
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20431

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **0.3** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **13** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **29** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **386** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **95** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **56** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **0.4** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **3.0** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
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Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP20-SED-WET-0-6
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20432

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **1.2** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.3** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **10** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **5** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **28** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **1590** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **113** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **61** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **1.1** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **9.2** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP20-SED-WET-6-12
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20433

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.7** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **1.1** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **16** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **26** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **1490** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **100** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **56** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **1.1** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **8.6** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP20-SED-24-30
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20434

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **0.7** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **21** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **7** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **29** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **1346** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **99** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **62** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **0.5** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **7.9** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP20-SED-36-42
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20435

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **0.9** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **19** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **8** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **25** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **1182** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **86** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **53** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **0.6** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **6.9** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: BP1-SED-0-6
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20436

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.8** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **1.4** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **17** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **7** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **44** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **646** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **98** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **36** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **1.6** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **4.3** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: VB1-SED-COMP-0-6
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20437

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.7** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.3** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **1.4** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.3** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **63** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **23** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **39** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **758** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **147** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **73** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **6.0** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **5.4** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: VB3-SED-COMP-0-6
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20438

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.8** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.5** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **1.6** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **20** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **11** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **38** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **1323** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **214** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **45** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **0.8** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **8.7** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 30 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: RC16A-SED-WET-0-6
01-043020
Sample Type: SOIL
Soil Laboratory Number: 20-A20439

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.3** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **6.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **5.5** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **13** | **ppm** | **6 May 2020** | **MRW** |
| **Olsen Phosphorus** | **34** | **ppm** | **6 May 2020** | **MRW** |
| **Potassium** | **76** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **1288** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **191** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **94** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **1.5** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **12.6** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 30 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: RC16A-SED-WET-6-12
01-043020
Sample Type: SOIL
Soil Laboratory Number: 20-A20440

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **6.4** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **6.5** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **5.4** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.2** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **136** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **74** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **97** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **1530** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **222** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **165** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **1.3** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **15.4** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP23-SED-0-6
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20441

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **8.0** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.6** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **0.2** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **14** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **24** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **584** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **69** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **101** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **1.0** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **4.0** | **me/100 g** | | **Calculated** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0 No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5 No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

**MVTL**

***MINNESOTA VALLEY TESTING LABORATORIES, INC.***

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

Report Date: 7 May 2020
Work Order #: 202011-00471
Account #: 019403
Purchase Order Number: P1007/606187

Date Received: 4 May 2020

Date Sampled: 27 Apr 2020

ANDREW TARARA
AECOM TECHNICAL SERVICES
800 LASALLE AVE
SUITE 1100
MINNEAPOLIS MN 55402

Project Number: P1007/606187

Soil Sample Identification: EP24-SED-0-6
01-042720
Sample Type: SOIL
Soil Laboratory Number: 20-A20442

| ANALYSES | Results | | Date Analyzed | Analyst |
|---|---|---|---|---|
| **pH** | **7.3** | **units** | **5 May 2020** | **BBH** |
| **Buffer Index** | **7.4** | **units** | **5 May 2020** | **BBH** |
| **Organic Matter** | **5.8** | **%** | **5 May 2020** | **BBH** |
| **Soluble Salts** | **0.1** | **mmhos/cm** | **5 May 2020** | **BBH** |
| **Bray-I Phosphorus** | **10** | **ppm** | **5 May 2020** | **MRW** |
| **Olsen Phosphorus** | **6** | **ppm** | **5 May 2020** | **MRW** |
| **Potassium** | **32** | **ppm** | **5 May 2020** | **LK** |
| **Calcium** | **2422** | **ppm** | **5 May 2020** | **LK** |
| **Magnesium** | **280** | **ppm** | **5 May 2020** | **LK** |
| **Sodium** | **100** | **ppm** | **5 May 2020** | **LK** |
| **Zinc** | **1.0** | **ppm** | **5 May 2020** | **SLL** |
| **CEC Summation** | **14.9** | **me/100 g** | | **Calculated** |
| **Pickup Charge** | **20.00 1** | | **4 May 2020** | **LAH** |

**Lime Needs as 100% ENP (lbs/A) to pH 6.0** **No lime required.**
**Lime Needs as 100% ENP (lbs/A) to pH 6.5** **No lime required.**

Analyses done in accordance with NCR-13 Methods. Phosphorus determined colorimetrically.

# APPENDIX U
# PACE IDW WASTE CHARACTERIZATION LABORATORY REPORTS

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 09, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60618753 P1007
Pace Project No.: 10519846

Dear Andrew Tarara:

Enclosed are the analytical results for sample(s) received by the laboratory on June 01, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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without the written consent of Pace Analytical Services, LLC.

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

# CERTIFICATIONS

Project: 60618753 P1007
Pace Project No.: 10519846

**Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01



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## SAMPLE SUMMARY

Project: 60618753 P1007
Pace Project No.: 10519846

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10519846001** | **FRAC-WT1-052920** | Water | 05/29/20 15:15 | 06/01/20 17:17 |
| **10519846002** | **FRAC-WT2-052920** | Water | 05/29/20 15:30 | 06/01/20 17:17 |
| **10519846003** | **TRIP BLANK** | Water | 05/29/20 00:00 | 06/01/20 17:17 |



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## SAMPLE ANALYTE COUNT

Project: 60618753 P1007
Pace Project No.: 10519846

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **10519846001** | **FRAC-WT1-052920** | WI MOD DRO | TT2 | 2 |
| | | WI MOD GRO | MJD | 2 |
| | | EPA 6010D | IP | 7 |
| | | EPA 7470A | LMW | 1 |
| | | EPA 8270E | CH3 | 72 |
| | | EPA 8260B | MM3 | 70 |
| | | SM 4500-H+B | SH4 | 1 |
| **10519846002** | **FRAC-WT2-052920** | WI MOD DRO | TT2 | 2 |
| | | WI MOD GRO | MJD | 2 |
| | | EPA 6010D | IP | 7 |
| | | EPA 7470A | LMW | 1 |
| | | EPA 8270E | CH3 | 72 |
| | | EPA 8260B | MM3 | 70 |
| | | SM 4500-H+B | SH4 | 1 |
| **10519846003** | **TRIP BLANK** | WI MOD GRO | MJD | 2 |
| | | EPA 8260B | MM3 | 70 |

PASI-M = Pace Analytical Services - Minneapolis



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## SUMMARY OF DETECTION

Project: 60618753 P1007
Pace Project No.: 10519846

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10519846001** | **FRAC-WT1-052920** | | | | | |
| EPA 8260B | Toluene | 6.4 | ug/L | 1.0 | 06/04/20 02:43 | |
| SM 4500-H+B | pH at 25 Degrees C | 8.1 | Std. Units | 0.10 | 06/03/20 16:42 | H6 |
| **10519846002** | **FRAC-WT2-052920** | | | | | |
| WI MOD DRO | WDRO C10-C28 | 0.13 | mg/L | 0.094 | 06/03/20 21:47 | T6,T7 |
| SM 4500-H+B | pH at 25 Degrees C | 8.6 | Std. Units | 0.10 | 06/03/20 16:44 | H6 |



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **WI MOD DRO**
**Description:** WIDRO LV GCS
**Client:** AECOM MN ND
**Date:** June 09, 2020

**General Information:**
2 samples were analyzed for WI MOD DRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: 678666

T6: High boiling point hydrocarbons are present in the sample.
- FRAC-WT2-052920 (Lab ID: 10519846002)
  - WDRO C10-C28

T7: Low boiling point hydrocarbons are present in the sample.
- FRAC-WT2-052920 (Lab ID: 10519846002)
  - WDRO C10-C28



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **WI MOD GRO**
**Description:** WIGRO GCV
**Client:** AECOM MN ND
**Date:** June 09, 2020

**General Information:**
3 samples were analyzed for WI MOD GRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **EPA 6010D**
**Description:** 6010D MET ICP, TCLP
**Client:** AECOM MN ND
**Date:** June 09, 2020

**General Information:**
2 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **EPA 7470A**
**Description:** 7470A Mercury, TCLP
**Client:** AECOM MN ND
**Date:** June 09, 2020

**General Information:**
2 samples were analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **EPA 8270E**
**Description:** 8270E MSSV
**Client:** AECOM MN ND
**Date:** June 09, 2020

**General Information:**
2 samples were analyzed for EPA 8270E by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3520C with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 678753

R1: RPD value was outside control limits.

- LCSD (Lab ID: 3632312)
  - Hexachloroethane

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 678753

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **EPA 8260B**
**Description:** 8260B VOC
**Client:** AECOM MN ND
**Date:** June 09, 2020

**General Information:**
3 samples were analyzed for EPA 8260B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: 678972

- BLANK (Lab ID: 3633271)
  - Dichlorofluoromethane
- FRAC-WT1-052920 (Lab ID: 10519846001)
  - Dichlorofluoromethane
- FRAC-WT2-052920 (Lab ID: 10519846002)
  - Dichlorofluoromethane
- LCS (Lab ID: 3633272)
  - Dichlorofluoromethane
- MS (Lab ID: 3634221)
  - Dichlorofluoromethane



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **EPA 8260B**
**Description:** 8260B VOC
**Client:** AECOM MN ND
**Date:** June 09, 2020

Analyte Comments:

QC Batch: 678972

- MSD (Lab ID: 3634222)
  - Dichlorofluoromethane
- TRIP BLANK (Lab ID: 10519846003)
  - Dichlorofluoromethane



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10519846

**Method:** **SM 4500-H+B**
**Description:** 4500H+ pH, Electrometric
**Client:** AECOM MN ND
**Date:** June 09, 2020

**General Information:**
2 samples were analyzed for SM 4500-H+B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- FRAC-WT1-052920 (Lab ID: 10519846001)
- FRAC-WT2-052920 (Lab ID: 10519846002)

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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# ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT1-052920** **Lab ID: 10519846001** Collected: 05/29/20 15:15 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **WIDRO LV GCS** | Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| WDRO C10-C28 | ND | mg/L | 0.094 | 0.032 | 1 | 06/02/20 13:14 | 06/03/20 23:19 | | |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 86 | %. | 50-150 | | 1 | 06/02/20 13:14 | 06/03/20 23:19 | 638-68-6 | |
| **WIGRO GCV** | Analytical Method: WI MOD GRO<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Gasoline Range Organics | ND | ug/L | 100 | 35.3 | 1 | | 06/05/20 02:15 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 97 | %. | 80-150 | | 1 | | 06/05/20 02:15 | 98-08-8 | |
| **6010D MET ICP, TCLP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Leachate Method/Date: EPA 1311; 06/03/20 08:58<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | ND | ug/L | 500 | 19.1 | 1 | 06/03/20 10:56 | 06/04/20 12:47 | 7440-38-2 | |
| Barium | ND | ug/L | 1000 | 3.3 | 1 | 06/03/20 10:56 | 06/04/20 12:47 | 7440-39-3 | |
| Cadmium | ND | ug/L | 50.0 | 1.6 | 1 | 06/03/20 10:56 | 06/04/20 12:47 | 7440-43-9 | |
| Chromium | ND | ug/L | 500 | 3.3 | 1 | 06/03/20 10:56 | 06/04/20 12:47 | 7440-47-3 | |
| Lead | ND | ug/L | 500 | 9.8 | 1 | 06/03/20 10:56 | 06/04/20 12:47 | 7439-92-1 | |
| Selenium | ND | ug/L | 100 | 29.0 | 1 | 06/03/20 10:56 | 06/04/20 12:47 | 7782-49-2 | |
| Silver | ND | ug/L | 100 | 2.9 | 1 | 06/03/20 10:56 | 06/04/20 12:47 | 7440-22-4 | |
| **7470A Mercury, TCLP** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Leachate Method/Date: EPA 1311; 06/03/20 08:58<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Mercury | ND | ug/L | 0.60 | 0.23 | 1 | 06/03/20 12:10 | 06/04/20 12:13 | 7439-97-6 | |
| **8270E MSSV** | Analytical Method: EPA 8270E Preparation Method: EPA 3520C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Phenol | ND | ug/L | 10.0 | 1.3 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 108-95-2 | |
| bis(2-Chloroethyl) ether | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 111-44-4 | |
| 2-Chlorophenol | ND | ug/L | 10.0 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 95-57-8 | |
| 1,3-Dichlorobenzene | ND | ug/L | 10.0 | 0.69 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 10.0 | 0.97 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 106-46-7 | |
| 1,2-Dichlorobenzene | ND | ug/L | 10.0 | 0.96 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 95-50-1 | |
| 2-Methylphenol(o-Cresol) | ND | ug/L | 10.0 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 95-48-7 | |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 10.0 | 2.0 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 108-60-1 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 10.0 | 1.8 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | | |
| N-Nitroso-di-n-propylamine | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 621-64-7 | |
| Hexachloroethane | ND | ug/L | 10.0 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 67-72-1 | |
| Nitrobenzene | ND | ug/L | 10.0 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 98-95-3 | |
| Isophorone | ND | ug/L | 10.0 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 78-59-1 | |
| 2-Nitrophenol | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 88-75-5 | |
| 2,4-Dimethylphenol | ND | ug/L | 10.0 | 2.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 105-67-9 | |
| bis(2-Chloroethoxy)methane | ND | ug/L | 10.0 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 111-91-1 | |
| 2,4-Dichlorophenol | ND | ug/L | 10.0 | 1.3 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 120-83-2 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT1-052920** **Lab ID: 10519846001** Collected: 05/29/20 15:15 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270E MSSV** | Analytical Method: EPA 8270E Preparation Method: EPA 3520C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 10.0 | 0.80 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 120-82-1 | |
| Naphthalene | ND | ug/L | 10.0 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 91-20-3 | |
| 4-Chloroaniline | ND | ug/L | 10.0 | 1.8 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 106-47-8 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 10.0 | 0.68 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 87-68-3 | |
| 4-Chloro-3-methylphenol | ND | ug/L | 10.0 | 1.3 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 59-50-7 | |
| 2-Methylnaphthalene | ND | ug/L | 10.0 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 91-57-6 | |
| 2,4,6-Trichlorophenol | ND | ug/L | 10.0 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 88-06-2 | |
| 2,4,5-Trichlorophenol | ND | ug/L | 10.0 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 95-95-4 | |
| 2-Chloronaphthalene | ND | ug/L | 10.0 | 0.98 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 91-58-7 | |
| 2-Nitroaniline | ND | ug/L | 10.0 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 88-74-4 | |
| Dimethylphthalate | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 131-11-3 | |
| Acenaphthylene | ND | ug/L | 10.0 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 208-96-8 | |
| 2,6-Dinitrotoluene | ND | ug/L | 10.0 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 606-20-2 | |
| 3-Nitroaniline | ND | ug/L | 10.0 | 3.0 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 99-09-2 | |
| Acenaphthene | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 83-32-9 | |
| 2,4-Dinitrophenol | ND | ug/L | 10.0 | 2.4 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 51-28-5 | |
| 4-Nitrophenol | ND | ug/L | 10.0 | 4.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 100-02-7 | |
| Dibenzofuran | ND | ug/L | 10.0 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 132-64-9 | |
| 2,4-Dinitrotoluene | ND | ug/L | 10.0 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 121-14-2 | |
| Diethylphthalate | ND | ug/L | 10.0 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 84-66-2 | |
| 4-Chlorophenylphenyl ether | ND | ug/L | 10.0 | 0.97 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 7005-72-3 | |
| Fluorene | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 86-73-7 | |
| 4-Nitroaniline | ND | ug/L | 10.0 | 1.8 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 100-01-6 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 10.0 | 2.9 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 534-52-1 | |
| N-Nitrosodiphenylamine | ND | ug/L | 10.0 | 1.8 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 86-30-6 | |
| 4-Bromophenylphenyl ether | ND | ug/L | 10.0 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 101-55-3 | |
| Hexachlorobenzene | ND | ug/L | 10.0 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 118-74-1 | |
| Pentachlorophenol | ND | ug/L | 20.0 | 6.0 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 87-86-5 | |
| Phenanthrene | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 85-01-8 | |
| Anthracene | ND | ug/L | 10.0 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 120-12-7 | |
| Di-n-butylphthalate | ND | ug/L | 10.0 | 3.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 84-74-2 | |
| Fluoranthene | ND | ug/L | 10.0 | 1.8 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 206-44-0 | |
| Pyrene | ND | ug/L | 10.0 | 0.96 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 129-00-0 | |
| Butylbenzylphthalate | ND | ug/L | 10.0 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 85-68-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 50.0 | 2.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 91-94-1 | |
| Benzo(a)anthracene | ND | ug/L | 10.0 | 0.97 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 56-55-3 | |
| Chrysene | ND | ug/L | 10.0 | 0.99 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 218-01-9 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 10.0 | 4.3 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 117-81-7 | |
| Di-n-octylphthalate | ND | ug/L | 10.0 | 2.0 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 117-84-0 | |
| Benzo(b)fluoranthene | ND | ug/L | 10.0 | 0.99 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 207-08-9 | |
| Benzo(a)pyrene | ND | ug/L | 10.0 | 0.86 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 50-32-8 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 10.0 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 193-39-5 | |
| Dibenz(a,h)anthracene | ND | ug/L | 10.0 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 53-70-3 | |
| Benzo(g,h,i)perylene | ND | ug/L | 10.0 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 191-24-2 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT1-052920** **Lab ID: 10519846001** Collected: 05/29/20 15:15 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270E MSSV** | Analytical Method: EPA 8270E Preparation Method: EPA 3520C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| N-Nitrosodimethylamine | ND | ug/L | 10.0 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 62-75-9 | |
| 1,2-Diphenylhydrazine | ND | ug/L | 10.0 | 1.8 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 122-66-7 | |
| Carbazole | ND | ug/L | 10.0 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 86-74-8 | |
| 1-Methylnaphthalene | ND | ug/L | 10.0 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 90-12-0 | |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 72 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 68 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 77 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 1718-51-0 | |
| Phenol-d6 (S) | 69 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 13127-88-3 | |
| 2-Fluorophenol (S) | 65 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 72 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:07 | 118-79-6 | |
| **8260B VOC** | Analytical Method: EPA 8260B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Acetone | ND | ug/L | 20.0 | 2.5 | 1 | | 06/04/20 02:43 | 67-64-1 | |
| Allyl chloride | ND | ug/L | 5.0 | 0.27 | 1 | | 06/04/20 02:43 | 107-05-1 | |
| Benzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 02:43 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 02:43 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.36 | 1 | | 06/04/20 02:43 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 06/04/20 02:43 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.27 | 1 | | 06/04/20 02:43 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 0.63 | 1 | | 06/04/20 02:43 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 20.0 | 0.88 | 1 | | 06/04/20 02:43 | 78-93-3 | |
| n-Butylbenzene | ND | ug/L | 1.0 | 0.16 | 1 | | 06/04/20 02:43 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/L | 5.0 | 0.15 | 1 | | 06/04/20 02:43 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 02:43 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 02:43 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.076 | 1 | | 06/04/20 02:43 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.42 | 1 | | 06/04/20 02:43 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.48 | 1 | | 06/04/20 02:43 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.15 | 1 | | 06/04/20 02:43 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 0.16 | 1 | | 06/04/20 02:43 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 0.050 | 1 | | 06/04/20 02:43 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1.2 | 1 | | 06/04/20 02:43 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 06/04/20 02:43 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.18 | 1 | | 06/04/20 02:43 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 4.0 | 0.15 | 1 | | 06/04/20 02:43 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.14 | 1 | | 06/04/20 02:43 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 02:43 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.082 | 1 | | 06/04/20 02:43 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 06/04/20 02:43 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 02:43 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.25 | 1 | | 06/04/20 02:43 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 02:43 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.20 | 1 | | 06/04/20 02:43 | 156-59-2 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT1-052920** **Lab ID: 10519846001** Collected: 05/29/20 15:15 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 06/04/20 02:43 | 156-60-5 | |
| Dichlorofluoromethane | ND | ug/L | 1.0 | 0.19 | 1 | | 06/04/20 02:43 | 75-43-4 | |
| 1,2-Dichloropropane | ND | ug/L | 4.0 | 0.14 | 1 | | 06/04/20 02:43 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 02:43 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 4.0 | 0.20 | 1 | | 06/04/20 02:43 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 0.22 | 1 | | 06/04/20 02:43 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 4.0 | 0.077 | 1 | | 06/04/20 02:43 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 4.0 | 0.32 | 1 | | 06/04/20 02:43 | 10061-02-6 | |
| Diethyl ether (Ethyl ether) | ND | ug/L | 5.0 | 0.18 | 1 | | 06/04/20 02:43 | 60-29-7 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.075 | 1 | | 06/04/20 02:43 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 5.0 | 0.40 | 1 | | 06/04/20 02:43 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 02:43 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 0.18 | 1 | | 06/04/20 02:43 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 4.0 | 1.1 | 1 | | 06/04/20 02:43 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.54 | 1 | | 06/04/20 02:43 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 02:43 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 5.0 | 0.68 | 1 | | 06/04/20 02:43 | 91-20-3 | |
| n-Propylbenzene | ND | ug/L | 1.0 | 0.18 | 1 | | 06/04/20 02:43 | 103-65-1 | |
| Styrene | ND | ug/L | 1.0 | 0.11 | 1 | | 06/04/20 02:43 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 02:43 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.16 | 1 | | 06/04/20 02:43 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 02:43 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.4 | 1 | | 06/04/20 02:43 | 109-99-9 | |
| Toluene | **6.4** | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 02:43 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | 0.17 | 1 | | 06/04/20 02:43 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | 0.19 | 1 | | 06/04/20 02:43 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 02:43 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.19 | 1 | | 06/04/20 02:43 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 0.40 | 0.15 | 1 | | 06/04/20 02:43 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 02:43 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 4.0 | 0.59 | 1 | | 06/04/20 02:43 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | 0.30 | 1 | | 06/04/20 02:43 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 02:43 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 02:43 | 108-67-8 | |
| Vinyl chloride | ND | ug/L | 0.20 | 0.099 | 1 | | 06/04/20 02:43 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 3.0 | 0.29 | 1 | | 06/04/20 02:43 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 102 | %. | 75-125 | | 1 | | 06/04/20 02:43 | 17060-07-0 | |
| Toluene-d8 (S) | 97 | %. | 75-125 | | 1 | | 06/04/20 02:43 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 75-125 | | 1 | | 06/04/20 02:43 | 460-00-4 | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **8.1** | Std. Units | 0.10 | 0.10 | 1 | | 06/03/20 16:42 | | H6 |

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# ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT2-052920** **Lab ID: 10519846002** Collected: 05/29/20 15:30 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **WIDRO LV GCS** | Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| WDRO C10-C28 | **0.13** | mg/L | 0.094 | 0.032 | 1 | 06/02/20 13:14 | 06/03/20 21:47 | | T6,T7 |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 80 | %. | 50-150 | | 1 | 06/02/20 13:14 | 06/03/20 21:47 | 638-68-6 | |
| **WIGRO GCV** | Analytical Method: WI MOD GRO<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Gasoline Range Organics | ND | ug/L | 100 | 35.3 | 1 | | 06/05/20 01:51 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 97 | %. | 80-150 | | 1 | | 06/05/20 01:51 | 98-08-8 | |
| **6010D MET ICP, TCLP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Leachate Method/Date: EPA 1311; 06/03/20 08:58<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | ND | ug/L | 500 | 19.1 | 1 | 06/03/20 10:56 | 06/04/20 12:50 | 7440-38-2 | |
| Barium | ND | ug/L | 1000 | 3.3 | 1 | 06/03/20 10:56 | 06/04/20 12:50 | 7440-39-3 | |
| Cadmium | ND | ug/L | 50.0 | 1.6 | 1 | 06/03/20 10:56 | 06/04/20 12:50 | 7440-43-9 | |
| Chromium | ND | ug/L | 500 | 3.3 | 1 | 06/03/20 10:56 | 06/04/20 12:50 | 7440-47-3 | |
| Lead | ND | ug/L | 500 | 9.8 | 1 | 06/03/20 10:56 | 06/04/20 12:50 | 7439-92-1 | |
| Selenium | ND | ug/L | 100 | 29.0 | 1 | 06/03/20 10:56 | 06/04/20 12:50 | 7782-49-2 | |
| Silver | ND | ug/L | 100 | 2.9 | 1 | 06/03/20 10:56 | 06/04/20 12:50 | 7440-22-4 | |
| **7470A Mercury, TCLP** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Leachate Method/Date: EPA 1311; 06/03/20 08:58<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Mercury | ND | ug/L | 0.60 | 0.23 | 1 | 06/03/20 12:10 | 06/04/20 12:21 | 7439-97-6 | |
| **8270E MSSV** | Analytical Method: EPA 8270E Preparation Method: EPA 3520C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Phenol | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 108-95-2 | |
| bis(2-Chloroethyl) ether | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 111-44-4 | |
| 2-Chlorophenol | ND | ug/L | 9.5 | 1.3 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 95-57-8 | |
| 1,3-Dichlorobenzene | ND | ug/L | 9.5 | 0.66 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 9.5 | 0.93 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 106-46-7 | |
| 1,2-Dichlorobenzene | ND | ug/L | 9.5 | 0.92 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 95-50-1 | |
| 2-Methylphenol(o-Cresol) | ND | ug/L | 9.5 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 95-48-7 | |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 9.5 | 1.9 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 108-60-1 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 9.5 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | | |
| N-Nitroso-di-n-propylamine | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 621-64-7 | |
| Hexachloroethane | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 67-72-1 | |
| Nitrobenzene | ND | ug/L | 9.5 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 98-95-3 | |
| Isophorone | ND | ug/L | 9.5 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 78-59-1 | |
| 2-Nitrophenol | ND | ug/L | 9.5 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 88-75-5 | |
| 2,4-Dimethylphenol | ND | ug/L | 9.5 | 2.0 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 105-67-9 | |
| bis(2-Chloroethoxy)methane | ND | ug/L | 9.5 | 1.3 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 111-91-1 | |
| 2,4-Dichlorophenol | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 120-83-2 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT2-052920** **Lab ID: 10519846002** Collected: 05/29/20 15:30 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270E MSSV** | Analytical Method: EPA 8270E Preparation Method: EPA 3520C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 9.5 | 0.76 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 120-82-1 | |
| Naphthalene | ND | ug/L | 9.5 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 91-20-3 | |
| 4-Chloroaniline | ND | ug/L | 9.5 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 106-47-8 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 9.5 | 0.65 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 87-68-3 | |
| 4-Chloro-3-methylphenol | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 59-50-7 | |
| 2-Methylnaphthalene | ND | ug/L | 9.5 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 91-57-6 | |
| 2,4,6-Trichlorophenol | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 88-06-2 | |
| 2,4,5-Trichlorophenol | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 95-95-4 | |
| 2-Chloronaphthalene | ND | ug/L | 9.5 | 0.93 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 91-58-7 | |
| 2-Nitroaniline | ND | ug/L | 9.5 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 88-74-4 | |
| Dimethylphthalate | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 131-11-3 | |
| Acenaphthylene | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 208-96-8 | |
| 2,6-Dinitrotoluene | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 606-20-2 | |
| 3-Nitroaniline | ND | ug/L | 9.5 | 2.9 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 99-09-2 | |
| Acenaphthene | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 83-32-9 | |
| 2,4-Dinitrophenol | ND | ug/L | 9.5 | 2.3 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 51-28-5 | |
| 4-Nitrophenol | ND | ug/L | 9.5 | 3.9 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 100-02-7 | |
| Dibenzofuran | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 132-64-9 | |
| 2,4-Dinitrotoluene | ND | ug/L | 9.5 | 1.0 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 121-14-2 | |
| Diethylphthalate | ND | ug/L | 9.5 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 84-66-2 | |
| 4-Chlorophenylphenyl ether | ND | ug/L | 9.5 | 0.93 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 7005-72-3 | |
| Fluorene | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 86-73-7 | |
| 4-Nitroaniline | ND | ug/L | 9.5 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 100-01-6 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 9.5 | 2.8 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 534-52-1 | |
| N-Nitrosodiphenylamine | ND | ug/L | 9.5 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 86-30-6 | |
| 4-Bromophenylphenyl ether | ND | ug/L | 9.5 | 1.3 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 101-55-3 | |
| Hexachlorobenzene | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 118-74-1 | |
| Pentachlorophenol | ND | ug/L | 19.0 | 5.7 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 87-86-5 | |
| Phenanthrene | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 85-01-8 | |
| Anthracene | ND | ug/L | 9.5 | 1.5 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 120-12-7 | |
| Di-n-butylphthalate | ND | ug/L | 9.5 | 3.0 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 84-74-2 | |
| Fluoranthene | ND | ug/L | 9.5 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 206-44-0 | |
| Pyrene | ND | ug/L | 9.5 | 0.92 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 129-00-0 | |
| Butylbenzylphthalate | ND | ug/L | 9.5 | 1.6 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 85-68-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 47.6 | 2.0 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 91-94-1 | |
| Benzo(a)anthracene | ND | ug/L | 9.5 | 0.93 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 56-55-3 | |
| Chrysene | ND | ug/L | 9.5 | 0.94 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 218-01-9 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 9.5 | 4.1 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 117-81-7 | |
| Di-n-octylphthalate | ND | ug/L | 9.5 | 1.9 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 117-84-0 | |
| Benzo(b)fluoranthene | ND | ug/L | 9.5 | 0.94 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 207-08-9 | |
| Benzo(a)pyrene | ND | ug/L | 9.5 | 0.82 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 50-32-8 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 9.5 | 1.0 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 193-39-5 | |
| Dibenz(a,h)anthracene | ND | ug/L | 9.5 | 1.2 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 53-70-3 | |
| Benzo(g,h,i)perylene | ND | ug/L | 9.5 | 1.1 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 191-24-2 | |

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(612)607-1700

## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT2-052920** **Lab ID: 10519846002** Collected: 05/29/20 15:30 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270E MSSV** | Analytical Method: EPA 8270E Preparation Method: EPA 3520C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| N-Nitrosodimethylamine | ND | ug/L | 9.5 | 1.0 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 62-75-9 | |
| 1,2-Diphenylhydrazine | ND | ug/L | 9.5 | 1.7 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 122-66-7 | |
| Carbazole | ND | ug/L | 9.5 | 1.4 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 86-74-8 | |
| 1-Methylnaphthalene | ND | ug/L | 9.5 | 1.0 | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 90-12-0 | |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 77 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 74 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 82 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 1718-51-0 | |
| Phenol-d6 (S) | 75 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 13127-88-3 | |
| 2-Fluorophenol (S) | 71 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 79 | %. | 30-125 | | 1 | 06/02/20 16:13 | 06/04/20 12:31 | 118-79-6 | |
| **8260B VOC** | Analytical Method: EPA 8260B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Acetone | ND | ug/L | 20.0 | 2.5 | 1 | | 06/04/20 01:01 | 67-64-1 | |
| Allyl chloride | ND | ug/L | 5.0 | 0.27 | 1 | | 06/04/20 01:01 | 107-05-1 | |
| Benzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 01:01 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 01:01 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.36 | 1 | | 06/04/20 01:01 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 06/04/20 01:01 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.27 | 1 | | 06/04/20 01:01 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 0.63 | 1 | | 06/04/20 01:01 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 20.0 | 0.88 | 1 | | 06/04/20 01:01 | 78-93-3 | |
| n-Butylbenzene | ND | ug/L | 1.0 | 0.16 | 1 | | 06/04/20 01:01 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/L | 5.0 | 0.15 | 1 | | 06/04/20 01:01 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 01:01 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 01:01 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.076 | 1 | | 06/04/20 01:01 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.42 | 1 | | 06/04/20 01:01 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.48 | 1 | | 06/04/20 01:01 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.15 | 1 | | 06/04/20 01:01 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 0.16 | 1 | | 06/04/20 01:01 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 0.050 | 1 | | 06/04/20 01:01 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1.2 | 1 | | 06/04/20 01:01 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 06/04/20 01:01 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.18 | 1 | | 06/04/20 01:01 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 4.0 | 0.15 | 1 | | 06/04/20 01:01 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.14 | 1 | | 06/04/20 01:01 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 01:01 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.082 | 1 | | 06/04/20 01:01 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 06/04/20 01:01 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 01:01 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.25 | 1 | | 06/04/20 01:01 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 01:01 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.20 | 1 | | 06/04/20 01:01 | 156-59-2 | |

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# ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: FRAC-WT2-052920** **Lab ID: 10519846002** Collected: 05/29/20 15:30 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 06/04/20 01:01 | 156-60-5 | |
| Dichlorofluoromethane | ND | ug/L | 1.0 | 0.19 | 1 | | 06/04/20 01:01 | 75-43-4 | |
| 1,2-Dichloropropane | ND | ug/L | 4.0 | 0.14 | 1 | | 06/04/20 01:01 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 01:01 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 4.0 | 0.20 | 1 | | 06/04/20 01:01 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 0.22 | 1 | | 06/04/20 01:01 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 4.0 | 0.077 | 1 | | 06/04/20 01:01 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 4.0 | 0.32 | 1 | | 06/04/20 01:01 | 10061-02-6 | |
| Diethyl ether (Ethyl ether) | ND | ug/L | 5.0 | 0.18 | 1 | | 06/04/20 01:01 | 60-29-7 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.075 | 1 | | 06/04/20 01:01 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 5.0 | 0.40 | 1 | | 06/04/20 01:01 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 01:01 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 0.18 | 1 | | 06/04/20 01:01 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 4.0 | 1.1 | 1 | | 06/04/20 01:01 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.54 | 1 | | 06/04/20 01:01 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 01:01 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 5.0 | 0.68 | 1 | | 06/04/20 01:01 | 91-20-3 | |
| n-Propylbenzene | ND | ug/L | 1.0 | 0.18 | 1 | | 06/04/20 01:01 | 103-65-1 | |
| Styrene | ND | ug/L | 1.0 | 0.11 | 1 | | 06/04/20 01:01 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.13 | 1 | | 06/04/20 01:01 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.16 | 1 | | 06/04/20 01:01 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 01:01 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.4 | 1 | | 06/04/20 01:01 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 01:01 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | 0.17 | 1 | | 06/04/20 01:01 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | 0.19 | 1 | | 06/04/20 01:01 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 01:01 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.19 | 1 | | 06/04/20 01:01 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 0.40 | 0.15 | 1 | | 06/04/20 01:01 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 01:01 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 4.0 | 0.59 | 1 | | 06/04/20 01:01 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | 0.30 | 1 | | 06/04/20 01:01 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1.0 | 0.17 | 1 | | 06/04/20 01:01 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/04/20 01:01 | 108-67-8 | |
| Vinyl chloride | ND | ug/L | 0.20 | 0.099 | 1 | | 06/04/20 01:01 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 3.0 | 0.29 | 1 | | 06/04/20 01:01 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 102 | %. | 75-125 | | 1 | | 06/04/20 01:01 | 17060-07-0 | |
| Toluene-d8 (S) | 98 | %. | 75-125 | | 1 | | 06/04/20 01:01 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | %. | 75-125 | | 1 | | 06/04/20 01:01 | 460-00-4 | |
| **4500H+ pH, Electrometric** | Analytical Method: SM 4500-H+B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **8.6** | Std. Units | 0.10 | 0.10 | 1 | | 06/03/20 16:44 | | H6 |

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# ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: TRIP BLANK** **Lab ID: 10519846003** Collected: 05/29/20 00:00 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **WIGRO GCV** | Analytical Method: WI MOD GRO<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Gasoline Range Organics | ND | ug/L | 100 | 35.3 | 1 | | 06/05/20 08:25 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 100 | %. | 80-150 | | 1 | | 06/05/20 08:25 | 98-08-8 | |
| **8260B VOC** | Analytical Method: EPA 8260B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Acetone | ND | ug/L | 20.0 | 2.5 | 1 | | 06/03/20 23:36 | 67-64-1 | |
| Allyl chloride | ND | ug/L | 5.0 | 0.27 | 1 | | 06/03/20 23:36 | 107-05-1 | |
| Benzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/03/20 23:36 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/03/20 23:36 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.36 | 1 | | 06/03/20 23:36 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 06/03/20 23:36 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.27 | 1 | | 06/03/20 23:36 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 0.63 | 1 | | 06/03/20 23:36 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 20.0 | 0.88 | 1 | | 06/03/20 23:36 | 78-93-3 | |
| n-Butylbenzene | ND | ug/L | 1.0 | 0.16 | 1 | | 06/03/20 23:36 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/L | 5.0 | 0.15 | 1 | | 06/03/20 23:36 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/03/20 23:36 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.17 | 1 | | 06/03/20 23:36 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.076 | 1 | | 06/03/20 23:36 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.42 | 1 | | 06/03/20 23:36 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.48 | 1 | | 06/03/20 23:36 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.15 | 1 | | 06/03/20 23:36 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 0.16 | 1 | | 06/03/20 23:36 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 0.050 | 1 | | 06/03/20 23:36 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1.2 | 1 | | 06/03/20 23:36 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 06/03/20 23:36 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.18 | 1 | | 06/03/20 23:36 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 4.0 | 0.15 | 1 | | 06/03/20 23:36 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.14 | 1 | | 06/03/20 23:36 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/03/20 23:36 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.082 | 1 | | 06/03/20 23:36 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 06/03/20 23:36 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.17 | 1 | | 06/03/20 23:36 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.25 | 1 | | 06/03/20 23:36 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.13 | 1 | | 06/03/20 23:36 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.20 | 1 | | 06/03/20 23:36 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 06/03/20 23:36 | 156-60-5 | |
| Dichlorofluoromethane | ND | ug/L | 1.0 | 0.19 | 1 | | 06/03/20 23:36 | 75-43-4 | |
| 1,2-Dichloropropane | ND | ug/L | 4.0 | 0.14 | 1 | | 06/03/20 23:36 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.13 | 1 | | 06/03/20 23:36 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 4.0 | 0.20 | 1 | | 06/03/20 23:36 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 0.22 | 1 | | 06/03/20 23:36 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 4.0 | 0.077 | 1 | | 06/03/20 23:36 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 4.0 | 0.32 | 1 | | 06/03/20 23:36 | 10061-02-6 | |

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# ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10519846

**Sample: TRIP BLANK** **Lab ID: 10519846003** Collected: 05/29/20 00:00 Received: 06/01/20 17:17 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Diethyl ether (Ethyl ether) | ND | ug/L | 5.0 | 0.18 | 1 | | 06/03/20 23:36 | 60-29-7 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.075 | 1 | | 06/03/20 23:36 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 5.0 | 0.40 | 1 | | 06/03/20 23:36 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 1.0 | 0.13 | 1 | | 06/03/20 23:36 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 0.18 | 1 | | 06/03/20 23:36 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 4.0 | 1.1 | 1 | | 06/03/20 23:36 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.54 | 1 | | 06/03/20 23:36 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 0.12 | 1 | | 06/03/20 23:36 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 5.0 | 0.68 | 1 | | 06/03/20 23:36 | 91-20-3 | |
| n-Propylbenzene | ND | ug/L | 1.0 | 0.18 | 1 | | 06/03/20 23:36 | 103-65-1 | |
| Styrene | ND | ug/L | 1.0 | 0.11 | 1 | | 06/03/20 23:36 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.13 | 1 | | 06/03/20 23:36 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.16 | 1 | | 06/03/20 23:36 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.17 | 1 | | 06/03/20 23:36 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.4 | 1 | | 06/03/20 23:36 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/03/20 23:36 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | 0.17 | 1 | | 06/03/20 23:36 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | 0.19 | 1 | | 06/03/20 23:36 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.17 | 1 | | 06/03/20 23:36 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.19 | 1 | | 06/03/20 23:36 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 0.40 | 0.15 | 1 | | 06/03/20 23:36 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.12 | 1 | | 06/03/20 23:36 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 4.0 | 0.59 | 1 | | 06/03/20 23:36 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | 0.30 | 1 | | 06/03/20 23:36 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1.0 | 0.17 | 1 | | 06/03/20 23:36 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1.0 | 0.12 | 1 | | 06/03/20 23:36 | 108-67-8 | |
| Vinyl chloride | ND | ug/L | 0.20 | 0.099 | 1 | | 06/03/20 23:36 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 3.0 | 0.29 | 1 | | 06/03/20 23:36 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 101 | %. | 75-125 | | 1 | | 06/03/20 23:36 | 17060-07-0 | |
| Toluene-d8 (S) | 96 | %. | 75-125 | | 1 | | 06/03/20 23:36 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | %. | 75-125 | | 1 | | 06/03/20 23:36 | 460-00-4 | |

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# QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

QC Batch: 679178 — Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO — Analysis Description: WIGRO GCV Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10519846001, 10519846002, 10519846003

METHOD BLANK: 3634174 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002, 10519846003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | ND | 100 | 35.3 | 06/04/20 21:20 | |
| a,a,a-Trifluorotoluene (S) | %. | 98 | 80-150 | | 06/04/20 21:20 | |

LABORATORY CONTROL SAMPLE & LCSD: 3634175 3634176

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 1000 | 974 | 897 | 97 | 90 | 80-120 | 8 | 20 | |
| a,a,a-Trifluorotoluene (S) | %. | | | | 101 | 99 | 80-150 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3634260 3634261

| Parameter | Units | 10519843002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 2570 | 5000 | 5000 | 7270 | 7320 | 94 | 95 | 80-120 | 1 | 20 | G- |
| a,a,a-Trifluorotoluene (S) | %. | | | | | | 100 | 101 | 80-150 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

QC Batch: 678915
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury TCLP
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10519846001, 10519846002

METHOD BLANK: 3632905 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.60 | 0.23 | 06/04/20 11:56 | |

METHOD BLANK: 3631383 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.60 | 0.23 | 06/04/20 12:41 | |

METHOD BLANK: 3631384 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.60 | 0.23 | 06/04/20 12:43 | |

LABORATORY CONTROL SAMPLE: 3632906

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 15 | 15.6 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3632907 3632908

| Parameter | Units | 10519795001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 15 | 15 | 15.3 | 15.9 | 102 | 106 | 80-120 | 4 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

QC Batch: 678919
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D TCLP
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10519846001, 10519846002

METHOD BLANK: 3632919 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | ND | 500 | 19.1 | 06/04/20 12:08 | |
| Barium | ug/L | ND | 1000 | 3.3 | 06/04/20 12:08 | |
| Cadmium | ug/L | ND | 50.0 | 1.6 | 06/04/20 12:08 | |
| Chromium | ug/L | ND | 500 | 3.3 | 06/04/20 12:08 | |
| Lead | ug/L | ND | 500 | 9.8 | 06/04/20 12:08 | |
| Selenium | ug/L | ND | 100 | 29.0 | 06/04/20 12:08 | |
| Silver | ug/L | ND | 100 | 2.9 | 06/04/20 12:08 | |

METHOD BLANK: 3631383 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | ND | 500 | 19.1 | 06/04/20 12:11 | |
| Barium | ug/L | ND | 1000 | 3.3 | 06/04/20 12:11 | |
| Cadmium | ug/L | ND | 50.0 | 1.6 | 06/04/20 12:11 | |
| Chromium | ug/L | ND | 500 | 3.3 | 06/04/20 12:11 | |
| Lead | ug/L | ND | 500 | 9.8 | 06/04/20 12:11 | |
| Selenium | ug/L | ND | 100 | 29.0 | 06/04/20 12:11 | |
| Silver | ug/L | ND | 100 | 2.9 | 06/04/20 12:11 | |

METHOD BLANK: 3631384 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | ND | 500 | 19.1 | 06/04/20 12:14 | |
| Barium | ug/L | ND | 1000 | 3.3 | 06/04/20 12:14 | |
| Cadmium | ug/L | ND | 50.0 | 1.6 | 06/04/20 12:14 | |
| Chromium | ug/L | ND | 500 | 3.3 | 06/04/20 12:14 | |
| Lead | ug/L | ND | 500 | 9.8 | 06/04/20 12:14 | |
| Selenium | ug/L | ND | 100 | 29.0 | 06/04/20 12:14 | |
| Silver | ug/L | ND | 100 | 2.9 | 06/04/20 12:14 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

LABORATORY CONTROL SAMPLE: 3632920

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | 5000 | 5540 | 111 | 80-120 | |
| Barium | ug/L | 5000 | 5490 | 110 | 80-120 | |
| Cadmium | ug/L | 5000 | 5420 | 108 | 80-120 | |
| Chromium | ug/L | 5000 | 5420 | 108 | 80-120 | |
| Lead | ug/L | 5000 | 5260 | 105 | 80-120 | |
| Selenium | ug/L | 5000 | 5510 | 110 | 80-120 | |
| Silver | ug/L | 2500 | 2650 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3632921 3632922

| Parameter | Units | 10519795001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | ND | 5000 | 5000 | 5410 | 5430 | 108 | 109 | 75-125 | 0 | 20 | |
| Barium | ug/L | ND | 5000 | 5000 | 5560 | 5580 | 106 | 106 | 75-125 | 0 | 20 | |
| Cadmium | ug/L | ND | 5000 | 5000 | 5190 | 5210 | 104 | 104 | 75-125 | 1 | 20 | |
| Chromium | ug/L | ND | 5000 | 5000 | 5260 | 5270 | 105 | 105 | 75-125 | 0 | 20 | |
| Lead | ug/L | ND | 5000 | 5000 | 5090 | 5110 | 102 | 102 | 75-125 | 0 | 20 | |
| Selenium | ug/L | ND | 5000 | 5000 | 5340 | 5360 | 107 | 107 | 75-125 | 1 | 20 | |
| Silver | ug/L | ND | 2500 | 2500 | 2600 | 2610 | 104 | 104 | 75-125 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

QC Batch: 678972
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10519846001, 10519846002, 10519846003

METHOD BLANK: 3633271 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002, 10519846003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1.0 | 0.13 | 06/03/20 22:45 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 0.17 | 06/03/20 22:45 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 0.16 | 06/03/20 22:45 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 0.19 | 06/03/20 22:45 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | ND | 5.0 | 0.30 | 06/03/20 22:45 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 0.17 | 06/03/20 22:45 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 0.13 | 06/03/20 22:45 | |
| 1,1-Dichloropropene | ug/L | ND | 1.0 | 0.22 | 06/03/20 22:45 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 5.0 | 0.17 | 06/03/20 22:45 | |
| 1,2,3-Trichloropropane | ug/L | ND | 4.0 | 0.59 | 06/03/20 22:45 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 5.0 | 0.19 | 06/03/20 22:45 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 1.0 | 0.17 | 06/03/20 22:45 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 5.0 | 1.2 | 06/03/20 22:45 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 0.18 | 06/03/20 22:45 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 0.14 | 06/03/20 22:45 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 0.25 | 06/03/20 22:45 | |
| 1,2-Dichloropropane | ug/L | ND | 4.0 | 0.14 | 06/03/20 22:45 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 1.0 | 0.12 | 06/03/20 22:45 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 0.12 | 06/03/20 22:45 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 0.13 | 06/03/20 22:45 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 0.082 | 06/03/20 22:45 | |
| 2,2-Dichloropropane | ug/L | ND | 4.0 | 0.20 | 06/03/20 22:45 | |
| 2-Butanone (MEK) | ug/L | ND | 20.0 | 0.88 | 06/03/20 22:45 | |
| 2-Chlorotoluene | ug/L | ND | 1.0 | 0.16 | 06/03/20 22:45 | |
| 4-Chlorotoluene | ug/L | ND | 1.0 | 0.050 | 06/03/20 22:45 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 5.0 | 0.54 | 06/03/20 22:45 | |
| Acetone | ug/L | ND | 20.0 | 2.5 | 06/03/20 22:45 | |
| Allyl chloride | ug/L | ND | 5.0 | 0.27 | 06/03/20 22:45 | |
| Benzene | ug/L | ND | 1.0 | 0.12 | 06/03/20 22:45 | |
| Bromobenzene | ug/L | ND | 1.0 | 0.13 | 06/03/20 22:45 | |
| Bromochloromethane | ug/L | ND | 1.0 | 0.36 | 06/03/20 22:45 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 0.11 | 06/03/20 22:45 | |
| Bromoform | ug/L | ND | 1.0 | 0.27 | 06/03/20 22:45 | |
| Bromomethane | ug/L | ND | 5.0 | 0.63 | 06/03/20 22:45 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 0.17 | 06/03/20 22:45 | |
| Chlorobenzene | ug/L | ND | 1.0 | 0.076 | 06/03/20 22:45 | |
| Chloroethane | ug/L | ND | 1.0 | 0.42 | 06/03/20 22:45 | |
| Chloroform | ug/L | ND | 5.0 | 0.48 | 06/03/20 22:45 | |
| Chloromethane | ug/L | ND | 1.0 | 0.15 | 06/03/20 22:45 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 0.20 | 06/03/20 22:45 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

METHOD BLANK: 3633271 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002, 10519846003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ug/L | ND | 4.0 | 0.077 | 06/03/20 22:45 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 0.20 | 06/03/20 22:45 | |
| Dibromomethane | ug/L | ND | 4.0 | 0.15 | 06/03/20 22:45 | |
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 0.20 | 06/03/20 22:45 | |
| Dichlorofluoromethane | ug/L | ND | 1.0 | 0.19 | 06/03/20 22:45 | |
| Diethyl ether (Ethyl ether) | ug/L | ND | 5.0 | 0.18 | 06/03/20 22:45 | |
| Ethylbenzene | ug/L | ND | 1.0 | 0.075 | 06/03/20 22:45 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 5.0 | 0.40 | 06/03/20 22:45 | |
| Isopropylbenzene (Cumene) | ug/L | ND | 1.0 | 0.13 | 06/03/20 22:45 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 0.12 | 06/03/20 22:45 | |
| Methylene Chloride | ug/L | ND | 4.0 | 1.1 | 06/03/20 22:45 | |
| n-Butylbenzene | ug/L | ND | 1.0 | 0.16 | 06/03/20 22:45 | |
| n-Propylbenzene | ug/L | ND | 1.0 | 0.18 | 06/03/20 22:45 | |
| Naphthalene | ug/L | ND | 5.0 | 0.68 | 06/03/20 22:45 | |
| p-Isopropyltoluene | ug/L | ND | 1.0 | 0.18 | 06/03/20 22:45 | |
| sec-Butylbenzene | ug/L | ND | 5.0 | 0.15 | 06/03/20 22:45 | |
| Styrene | ug/L | ND | 1.0 | 0.11 | 06/03/20 22:45 | |
| tert-Butylbenzene | ug/L | ND | 1.0 | 0.13 | 06/03/20 22:45 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 0.17 | 06/03/20 22:45 | |
| Tetrahydrofuran | ug/L | ND | 10.0 | 3.4 | 06/03/20 22:45 | |
| Toluene | ug/L | ND | 1.0 | 0.12 | 06/03/20 22:45 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 0.19 | 06/03/20 22:45 | |
| trans-1,3-Dichloropropene | ug/L | ND | 4.0 | 0.32 | 06/03/20 22:45 | |
| Trichloroethene | ug/L | ND | 0.40 | 0.15 | 06/03/20 22:45 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 0.12 | 06/03/20 22:45 | |
| Vinyl chloride | ug/L | ND | 0.20 | 0.099 | 06/03/20 22:45 | |
| Xylene (Total) | ug/L | ND | 3.0 | 0.29 | 06/03/20 22:45 | |
| 1,2-Dichloroethane-d4 (S) | %. | 99 | 75-125 | | 06/03/20 22:45 | |
| 4-Bromofluorobenzene (S) | %. | 99 | 75-125 | | 06/03/20 22:45 | |
| Toluene-d8 (S) | %. | 97 | 75-125 | | 06/03/20 22:45 | |

LABORATORY CONTROL SAMPLE: 3633272

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 18.5 | 93 | 75-128 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 17.9 | 90 | 75-128 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 19.0 | 95 | 69-129 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 19.6 | 98 | 75-125 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 20 | 17.4 | 87 | 74-125 | |
| 1,1-Dichloroethane | ug/L | 20 | 17.1 | 86 | 75-125 | |
| 1,1-Dichloroethene | ug/L | 20 | 18.1 | 90 | 65-125 | |
| 1,1-Dichloropropene | ug/L | 20 | 17.8 | 89 | 69-131 | |
| 1,2,3-Trichlorobenzene | ug/L | 20 | 18.4 | 92 | 75-125 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 20.1 | 101 | 75-125 | |

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(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

LABORATORY CONTROL SAMPLE: 3633272

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/L | 20 | 19.1 | 95 | 67-131 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 18.8 | 94 | 75-125 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 49.3 | 99 | 65-128 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 20.1 | 100 | 75-125 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 18.8 | 94 | 75-125 | |
| 1,2-Dichloroethane | ug/L | 20 | 18.2 | 91 | 74-125 | |
| 1,2-Dichloropropane | ug/L | 20 | 18.4 | 92 | 68-125 | |
| 1,3,5-Trimethylbenzene | ug/L | 20 | 18.6 | 93 | 75-125 | |
| 1,3-Dichlorobenzene | ug/L | 20 | 19.7 | 99 | 75-125 | |
| 1,3-Dichloropropane | ug/L | 20 | 19.4 | 97 | 75-125 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 18.9 | 95 | 75-125 | |
| 2,2-Dichloropropane | ug/L | 20 | 15.7 | 78 | 70-133 | |
| 2-Butanone (MEK) | ug/L | 100 | 94.6 | 95 | 62-142 | |
| 2-Chlorotoluene | ug/L | 20 | 18.9 | 94 | 75-125 | |
| 4-Chlorotoluene | ug/L | 20 | 18.9 | 95 | 75-125 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 101 | 101 | 75-125 | |
| Acetone | ug/L | 100 | 84.6 | 85 | 47-150 | |
| Allyl chloride | ug/L | 20 | 19.1 | 95 | 65-125 | |
| Benzene | ug/L | 20 | 18.8 | 94 | 75-125 | |
| Bromobenzene | ug/L | 20 | 19.2 | 96 | 75-125 | |
| Bromochloromethane | ug/L | 20 | 19.2 | 96 | 75-125 | |
| Bromodichloromethane | ug/L | 20 | 18.3 | 92 | 75-128 | |
| Bromoform | ug/L | 20 | 19.5 | 97 | 75-125 | |
| Bromomethane | ug/L | 20 | 16.2 | 81 | 43-150 | |
| Carbon tetrachloride | ug/L | 20 | 17.1 | 85 | 75-127 | |
| Chlorobenzene | ug/L | 20 | 19.5 | 98 | 75-125 | |
| Chloroethane | ug/L | 20 | 19.0 | 95 | 72-130 | |
| Chloroform | ug/L | 20 | 17.3 | 86 | 75-125 | |
| Chloromethane | ug/L | 20 | 17.2 | 86 | 55-128 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 18.0 | 90 | 75-125 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 17.6 | 88 | 74-132 | |
| Dibromochloromethane | ug/L | 20 | 20.2 | 101 | 75-125 | |
| Dibromomethane | ug/L | 20 | 20.8 | 104 | 71-137 | |
| Dichlorodifluoromethane | ug/L | 20 | 18.8 | 94 | 69-126 | |
| Dichlorofluoromethane | ug/L | 20 | 17.9 | 89 | 75-125 | |
| Diethyl ether (Ethyl ether) | ug/L | 20 | 19.1 | 96 | 72-125 | |
| Ethylbenzene | ug/L | 20 | 18.4 | 92 | 75-125 | |
| Hexachloro-1,3-butadiene | ug/L | 20 | 18.3 | 92 | 74-129 | |
| Isopropylbenzene (Cumene) | ug/L | 20 | 18.6 | 93 | 75-125 | |
| Methyl-tert-butyl ether | ug/L | 20 | 18.2 | 91 | 69-125 | |
| Methylene Chloride | ug/L | 20 | 18.4 | 92 | 72-125 | |
| n-Butylbenzene | ug/L | 20 | 18.7 | 93 | 75-128 | |
| n-Propylbenzene | ug/L | 20 | 18.9 | 94 | 75-125 | |
| Naphthalene | ug/L | 20 | 18.8 | 94 | 70-125 | |
| p-Isopropyltoluene | ug/L | 20 | 18.1 | 91 | 75-125 | |
| sec-Butylbenzene | ug/L | 20 | 18.6 | 93 | 75-127 | |
| Styrene | ug/L | 20 | 18.4 | 92 | 75-125 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

LABORATORY CONTROL SAMPLE: 3633272

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| tert-Butylbenzene | ug/L | 20 | 17.7 | 88 | 75-125 | |
| Tetrachloroethene | ug/L | 20 | 19.0 | 95 | 74-125 | |
| Tetrahydrofuran | ug/L | 200 | 188 | 94 | 73-132 | |
| Toluene | ug/L | 20 | 19.4 | 97 | 75-125 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 18.0 | 90 | 69-125 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 18.6 | 93 | 69-130 | |
| Trichloroethene | ug/L | 20 | 19.5 | 97 | 75-127 | |
| Trichlorofluoromethane | ug/L | 20 | 18.6 | 93 | 71-132 | |
| Vinyl chloride | ug/L | 20 | 18.2 | 91 | 65-128 | |
| Xylene (Total) | ug/L | 60 | 57.9 | 96 | 75-125 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | 101 | 75-125 | |
| 4-Bromofluorobenzene (S) | %. | | | 95 | 75-125 | |
| Toluene-d8 (S) | %. | | | 101 | 75-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3634221 3634222

| Parameter | Units | 10519843004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 18.6 | 18.7 | 93 | 93 | 71-128 | 1 | 30 | |
| 1,1,1-Trichloroethane | ug/L | ND | 20 | 20 | 18.9 | 19.8 | 94 | 99 | 75-144 | 5 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 18.4 | 19.2 | 92 | 96 | 63-125 | 4 | 30 | |
| 1,1,2-Trichloroethane | ug/L | ND | 20 | 20 | 19.6 | 19.8 | 98 | 99 | 75-125 | 1 | 30 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | ND | 20 | 20 | 20.0 | 20.8 | 100 | 104 | 69-141 | 4 | 30 | |
| 1,1-Dichloroethane | ug/L | ND | 20 | 20 | 17.4 | 18.0 | 87 | 90 | 68-125 | 3 | 30 | |
| 1,1-Dichloroethene | ug/L | ND | 20 | 20 | 19.8 | 20.2 | 99 | 101 | 62-135 | 2 | 30 | |
| 1,1-Dichloropropene | ug/L | ND | 20 | 20 | 19.0 | 19.6 | 95 | 98 | 61-147 | 3 | 30 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 20 | 20 | 18.4 | 21.5 | 92 | 107 | 59-145 | 16 | 30 | |
| 1,2,3-Trichloropropane | ug/L | ND | 20 | 20 | 19.0 | 19.7 | 95 | 99 | 69-125 | 3 | 30 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 20 | 20 | 18.4 | 21.5 | 92 | 107 | 59-144 | 15 | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 20 | 20 | 19.2 | 20.2 | 96 | 101 | 56-139 | 5 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 50 | 50 | 50.1 | 53.2 | 100 | 106 | 64-125 | 6 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 20 | 20 | 19.6 | 20.0 | 98 | 100 | 71-125 | 2 | 30 | |
| 1,2-Dichlorobenzene | ug/L | ND | 20 | 20 | 18.3 | 19.3 | 91 | 97 | 74-125 | 6 | 30 | |
| 1,2-Dichloroethane | ug/L | ND | 20 | 20 | 17.6 | 18.0 | 88 | 90 | 64-125 | 2 | 30 | |
| 1,2-Dichloropropane | ug/L | ND | 20 | 20 | 18.2 | 18.7 | 91 | 93 | 63-125 | 3 | 30 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 20 | 20 | 19.3 | 20.3 | 96 | 102 | 63-132 | 5 | 30 | |
| 1,3-Dichlorobenzene | ug/L | ND | 20 | 20 | 19.5 | 20.5 | 97 | 103 | 74-125 | 5 | 30 | |
| 1,3-Dichloropropane | ug/L | ND | 20 | 20 | 18.5 | 19.0 | 92 | 95 | 75-125 | 3 | 30 | |
| 1,4-Dichlorobenzene | ug/L | ND | 20 | 20 | 18.9 | 19.9 | 94 | 100 | 73-125 | 6 | 30 | |
| 2,2-Dichloropropane | ug/L | ND | 20 | 20 | 16.4 | 16.9 | 82 | 84 | 64-145 | 3 | 30 | |
| 2-Butanone (MEK) | ug/L | ND | 100 | 100 | 91.3 | 92.6 | 91 | 93 | 39-125 | 1 | 30 | |
| 2-Chlorotoluene | ug/L | ND | 20 | 20 | 19.4 | 20.1 | 97 | 101 | 68-128 | 4 | 30 | |
| 4-Chlorotoluene | ug/L | ND | 20 | 20 | 19.4 | 20.2 | 97 | 101 | 71-128 | 4 | 30 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3634221 3634222

| Parameter | Units | 10519843004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 100 | 100 | 99.3 | 103 | 99 | 103 | 65-125 | 4 | 30 | |
| Acetone | ug/L | ND | 100 | 100 | 75.8 | 79.8 | 76 | 80 | 32-133 | 5 | 30 | |
| Allyl chloride | ug/L | ND | 20 | 20 | 19.3 | 20.0 | 96 | 100 | 61-125 | 4 | 30 | |
| Benzene | ug/L | ND | 20 | 20 | 18.9 | 19.5 | 95 | 97 | 63-125 | 3 | 30 | |
| Bromobenzene | ug/L | ND | 20 | 20 | 18.8 | 19.9 | 94 | 99 | 75-125 | 6 | 30 | |
| Bromochloromethane | ug/L | ND | 20 | 20 | 18.6 | 19.5 | 93 | 97 | 67-125 | 4 | 30 | |
| Bromodichloromethane | ug/L | ND | 20 | 20 | 18.0 | 18.7 | 90 | 94 | 67-139 | 4 | 30 | |
| Bromoform | ug/L | ND | 20 | 20 | 19.4 | 20.1 | 97 | 101 | 75-125 | 4 | 30 | |
| Bromomethane | ug/L | ND | 20 | 20 | 19.0 | 20.9 | 95 | 105 | 50-150 | 10 | 30 | |
| Carbon tetrachloride | ug/L | ND | 20 | 20 | 18.9 | 19.8 | 95 | 99 | 70-148 | 4 | 30 | |
| Chlorobenzene | ug/L | ND | 20 | 20 | 19.4 | 20.0 | 97 | 100 | 75-125 | 3 | 30 | |
| Chloroethane | ug/L | ND | 20 | 20 | 18.3 | 19.8 | 92 | 99 | 62-142 | 8 | 30 | |
| Chloroform | ug/L | ND | 20 | 20 | 17.1 | 17.7 | 86 | 88 | 67-125 | 3 | 30 | |
| Chloromethane | ug/L | ND | 20 | 20 | 17.9 | 18.3 | 90 | 92 | 43-140 | 2 | 30 | |
| cis-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 18.3 | 18.5 | 92 | 92 | 64-134 | 1 | 30 | |
| cis-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 16.9 | 17.8 | 85 | 89 | 68-129 | 5 | 30 | |
| Dibromochloromethane | ug/L | ND | 20 | 20 | 20.6 | 20.7 | 103 | 103 | 71-137 | 1 | 30 | |
| Dibromomethane | ug/L | ND | 20 | 20 | 19.5 | 20.2 | 97 | 101 | 66-130 | 3 | 30 | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 20 | 20.5 | 21.6 | 103 | 108 | 61-144 | 5 | 30 | |
| Dichlorofluoromethane | ug/L | ND | 20 | 20 | 17.6 | 18.5 | 88 | 92 | 68-125 | 5 | 30 | |
| Diethyl ether (Ethyl ether) | ug/L | ND | 20 | 20 | 18.1 | 18.9 | 91 | 94 | 57-127 | 4 | 30 | |
| Ethylbenzene | ug/L | ND | 20 | 20 | 19.2 | 19.7 | 95 | 98 | 66-128 | 3 | 30 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 20 | 20 | 20.3 | 20.6 | 101 | 103 | 52-150 | 1 | 30 | |
| Isopropylbenzene (Cumene) | ug/L | ND | 20 | 20 | 19.4 | 20.4 | 97 | 102 | 73-138 | 5 | 30 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20 | 17.3 | 18.2 | 86 | 91 | 60-125 | 5 | 30 | |
| Methylene Chloride | ug/L | ND | 20 | 20 | 17.8 | 18.9 | 89 | 95 | 59-125 | 6 | 30 | |
| n-Butylbenzene | ug/L | ND | 20 | 20 | 19.6 | 22.2 | 98 | 111 | 68-146 | 12 | 30 | |
| n-Propylbenzene | ug/L | ND | 20 | 20 | 20.2 | 21.5 | 101 | 108 | 72-132 | 6 | 30 | |
| Naphthalene | ug/L | ND | 20 | 20 | 19.1 | 20.8 | 95 | 104 | 55-135 | 8 | 30 | |
| p-Isopropyltoluene | ug/L | ND | 20 | 20 | 18.8 | 21.1 | 94 | 106 | 69-139 | 12 | 30 | |
| sec-Butylbenzene | ug/L | ND | 20 | 20 | 19.6 | 21.9 | 98 | 110 | 69-149 | 11 | 30 | |
| Styrene | ug/L | ND | 20 | 20 | 17.9 | 18.6 | 90 | 93 | 75-126 | 4 | 30 | |
| tert-Butylbenzene | ug/L | ND | 20 | 20 | 18.3 | 20.2 | 91 | 101 | 67-147 | 10 | 30 | |
| Tetrachloroethene | ug/L | ND | 20 | 20 | 20.7 | 20.9 | 103 | 105 | 70-141 | 1 | 30 | |
| Tetrahydrofuran | ug/L | ND | 200 | 200 | 171 | 183 | 86 | 92 | 64-128 | 7 | 30 | |
| Toluene | ug/L | ND | 20 | 20 | 20.0 | 20.3 | 99 | 101 | 64-125 | 2 | 30 | |
| trans-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 19.3 | 19.5 | 96 | 97 | 62-135 | 1 | 30 | |
| trans-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 18.2 | 18.5 | 91 | 92 | 69-125 | 1 | 30 | |
| Trichloroethene | ug/L | ND | 20 | 20 | 20.1 | 20.7 | 100 | 104 | 69-141 | 3 | 30 | |
| Trichlorofluoromethane | ug/L | ND | 20 | 20 | 19.9 | 20.5 | 99 | 103 | 61-148 | 3 | 30 | |
| Vinyl chloride | ug/L | ND | 20 | 20 | 19.1 | 19.5 | 95 | 98 | 56-144 | 3 | 30 | |
| Xylene (Total) | ug/L | ND | 60 | 60 | 58.0 | 59.9 | 97 | 100 | 64-131 | 3 | 30 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | | | | 101 | 101 | 75-125 | | | |
| 4-Bromofluorobenzene (S) | %. | | | | | | 97 | 98 | 75-125 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3634221 3634222

| Parameter | Units | 10519843004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (S) | %. | | | | | | 100 | 100 | 75-125 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

QC Batch: 678753
QC Batch Method: EPA 3520C
Analysis Method: EPA 8270E
Analysis Description: 8270E Water MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10519846001, 10519846002

METHOD BLANK: 3632310 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/L | ND | 10.0 | 0.80 | 06/04/20 10:03 | |
| 1,2-Dichlorobenzene | ug/L | ND | 10.0 | 0.96 | 06/04/20 10:03 | |
| 1,2-Diphenylhydrazine | ug/L | ND | 10.0 | 1.8 | 06/04/20 10:03 | |
| 1,3-Dichlorobenzene | ug/L | ND | 10.0 | 0.69 | 06/04/20 10:03 | |
| 1,4-Dichlorobenzene | ug/L | ND | 10.0 | 0.97 | 06/04/20 10:03 | |
| 1-Methylnaphthalene | ug/L | ND | 10.0 | 1.1 | 06/04/20 10:03 | |
| 2,4,5-Trichlorophenol | ug/L | ND | 10.0 | 1.2 | 06/04/20 10:03 | |
| 2,4,6-Trichlorophenol | ug/L | ND | 10.0 | 1.4 | 06/04/20 10:03 | |
| 2,4-Dichlorophenol | ug/L | ND | 10.0 | 1.3 | 06/04/20 10:03 | |
| 2,4-Dimethylphenol | ug/L | ND | 10.0 | 2.1 | 06/04/20 10:03 | |
| 2,4-Dinitrophenol | ug/L | ND | 10.0 | 2.4 | 06/04/20 10:03 | |
| 2,4-Dinitrotoluene | ug/L | ND | 10.0 | 1.1 | 06/04/20 10:03 | |
| 2,6-Dinitrotoluene | ug/L | ND | 10.0 | 1.2 | 06/04/20 10:03 | |
| 2-Chloronaphthalene | ug/L | ND | 10.0 | 0.98 | 06/04/20 10:03 | |
| 2-Chlorophenol | ug/L | ND | 10.0 | 1.4 | 06/04/20 10:03 | |
| 2-Methylnaphthalene | ug/L | ND | 10.0 | 1.1 | 06/04/20 10:03 | |
| 2-Methylphenol(o-Cresol) | ug/L | ND | 10.0 | 1.6 | 06/04/20 10:03 | |
| 2-Nitroaniline | ug/L | ND | 10.0 | 1.7 | 06/04/20 10:03 | |
| 2-Nitrophenol | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | ND | 10.0 | 1.8 | 06/04/20 10:03 | |
| 3,3'-Dichlorobenzidine | ug/L | ND | 50.0 | 2.1 | 06/04/20 10:03 | |
| 3-Nitroaniline | ug/L | ND | 10.0 | 3.0 | 06/04/20 10:03 | |
| 4,6-Dinitro-2-methylphenol | ug/L | ND | 10.0 | 2.9 | 06/04/20 10:03 | |
| 4-Bromophenylphenyl ether | ug/L | ND | 10.0 | 1.4 | 06/04/20 10:03 | |
| 4-Chloro-3-methylphenol | ug/L | ND | 10.0 | 1.3 | 06/04/20 10:03 | |
| 4-Chloroaniline | ug/L | ND | 10.0 | 1.8 | 06/04/20 10:03 | |
| 4-Chlorophenylphenyl ether | ug/L | ND | 10.0 | 0.97 | 06/04/20 10:03 | |
| 4-Nitroaniline | ug/L | ND | 10.0 | 1.8 | 06/04/20 10:03 | |
| 4-Nitrophenol | ug/L | ND | 10.0 | 4.1 | 06/04/20 10:03 | |
| Acenaphthene | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| Acenaphthylene | ug/L | ND | 10.0 | 1.4 | 06/04/20 10:03 | |
| Anthracene | ug/L | ND | 10.0 | 1.6 | 06/04/20 10:03 | |
| Benzo(a)anthracene | ug/L | ND | 10.0 | 0.97 | 06/04/20 10:03 | |
| Benzo(a)pyrene | ug/L | ND | 10.0 | 0.86 | 06/04/20 10:03 | |
| Benzo(b)fluoranthene | ug/L | ND | 10.0 | 0.99 | 06/04/20 10:03 | |
| Benzo(g,h,i)perylene | ug/L | ND | 10.0 | 1.1 | 06/04/20 10:03 | |
| Benzo(k)fluoranthene | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| bis(2-Chloroethoxy)methane | ug/L | ND | 10.0 | 1.4 | 06/04/20 10:03 | |
| bis(2-Chloroethyl) ether | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| bis(2-Chloroisopropyl) ether | ug/L | ND | 10.0 | 2.0 | 06/04/20 10:03 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

METHOD BLANK: 3632310 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | ND | 10.0 | 4.3 | 06/04/20 10:03 | |
| Butylbenzylphthalate | ug/L | ND | 10.0 | 1.6 | 06/04/20 10:03 | |
| Carbazole | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| Chrysene | ug/L | ND | 10.0 | 0.99 | 06/04/20 10:03 | |
| Di-n-butylphthalate | ug/L | ND | 10.0 | 3.1 | 06/04/20 10:03 | |
| Di-n-octylphthalate | ug/L | ND | 10.0 | 2.0 | 06/04/20 10:03 | |
| Dibenz(a,h)anthracene | ug/L | ND | 10.0 | 1.2 | 06/04/20 10:03 | |
| Dibenzofuran | ug/L | ND | 10.0 | 1.4 | 06/04/20 10:03 | |
| Diethylphthalate | ug/L | ND | 10.0 | 1.7 | 06/04/20 10:03 | |
| Dimethylphthalate | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| Fluoranthene | ug/L | ND | 10.0 | 1.8 | 06/04/20 10:03 | |
| Fluorene | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 10.0 | 0.68 | 06/04/20 10:03 | |
| Hexachlorobenzene | ug/L | ND | 10.0 | 1.2 | 06/04/20 10:03 | |
| Hexachloroethane | ug/L | ND | 10.0 | 1.2 | 06/04/20 10:03 | |
| Indeno(1,2,3-cd)pyrene | ug/L | ND | 10.0 | 1.1 | 06/04/20 10:03 | |
| Isophorone | ug/L | ND | 10.0 | 1.6 | 06/04/20 10:03 | |
| N-Nitroso-di-n-propylamine | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| N-Nitrosodimethylamine | ug/L | ND | 10.0 | 1.1 | 06/04/20 10:03 | |
| N-Nitrosodiphenylamine | ug/L | ND | 10.0 | 1.8 | 06/04/20 10:03 | |
| Naphthalene | ug/L | ND | 10.0 | 1.1 | 06/04/20 10:03 | |
| Nitrobenzene | ug/L | ND | 10.0 | 1.6 | 06/04/20 10:03 | |
| Pentachlorophenol | ug/L | ND | 20.0 | 6.0 | 06/04/20 10:03 | |
| Phenanthrene | ug/L | ND | 10.0 | 1.5 | 06/04/20 10:03 | |
| Phenol | ug/L | ND | 10.0 | 1.3 | 06/04/20 10:03 | |
| Pyrene | ug/L | ND | 10.0 | 0.96 | 06/04/20 10:03 | |
| 2,4,6-Tribromophenol (S) | %. | 73 | 30-125 | | 06/04/20 10:03 | |
| 2-Fluorobiphenyl (S) | %. | 64 | 30-125 | | 06/04/20 10:03 | |
| 2-Fluorophenol (S) | %. | 67 | 30-125 | | 06/04/20 10:03 | |
| Nitrobenzene-d5 (S) | %. | 71 | 30-125 | | 06/04/20 10:03 | |
| p-Terphenyl-d14 (S) | %. | 79 | 30-125 | | 06/04/20 10:03 | |
| Phenol-d6 (S) | %. | 71 | 30-125 | | 06/04/20 10:03 | |

LABORATORY CONTROL SAMPLE & LCSD: 3632311 3632312

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/L | 50 | 31.7 | 34.9 | 63 | 70 | 30-125 | 10 | 20 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 26.7 | 30.1 | 53 | 60 | 30-125 | 12 | 20 | |
| 1,2-Diphenylhydrazine | ug/L | 50 | 39.6 | 40.4 | 79 | 81 | 59-125 | 2 | 20 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 24.4 | 28.3 | 49 | 57 | 30-125 | 15 | 20 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 25.5 | 29.5 | 51 | 59 | 30-125 | 15 | 20 | |
| 1-Methylnaphthalene | ug/L | 50 | 35.5 | 37.6 | 71 | 75 | 46-125 | 6 | 20 | |
| 2,4,5-Trichlorophenol | ug/L | 50 | 38.6 | 38.4 | 77 | 77 | 56-125 | 1 | 20 | |
| 2,4,6-Trichlorophenol | ug/L | 50 | 37.3 | 39.0 | 75 | 78 | 55-125 | 4 | 20 | |

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## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

LABORATORY CONTROL SAMPLE & LCSD: 3632311 3632312

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | ug/L | 50 | 36.7 | 37.8 | 73 | 76 | 63-125 | 3 | 20 | |
| 2,4-Dimethylphenol | ug/L | 50 | 33.8 | 33.5 | 68 | 67 | 32-125 | 1 | 20 | |
| 2,4-Dinitrophenol | ug/L | 50 | 39.6 | 41.5 | 79 | 83 | 43-125 | 5 | 20 | |
| 2,4-Dinitrotoluene | ug/L | 50 | 40.2 | 42.8 | 80 | 86 | 56-125 | 6 | 20 | |
| 2,6-Dinitrotoluene | ug/L | 50 | 39.5 | 40.0 | 79 | 80 | 55-125 | 1 | 20 | |
| 2-Chloronaphthalene | ug/L | 50 | 35.8 | 37.3 | 72 | 75 | 48-125 | 4 | 20 | |
| 2-Chlorophenol | ug/L | 50 | 36.5 | 38.0 | 73 | 76 | 51-125 | 4 | 20 | |
| 2-Methylnaphthalene | ug/L | 50 | 34.6 | 36.6 | 69 | 73 | 43-125 | 6 | 20 | |
| 2-Methylphenol(o-Cresol) | ug/L | 50 | 37.9 | 38.2 | 76 | 76 | 47-125 | 1 | 20 | |
| 2-Nitroaniline | ug/L | 50 | 40.9 | 41.6 | 82 | 83 | 58-125 | 2 | 20 | |
| 2-Nitrophenol | ug/L | 50 | 37.7 | 38.2 | 75 | 76 | 61-125 | 1 | 20 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | 50 | 38.0 | 38.2 | 76 | 76 | 43-125 | 0 | 20 | |
| 3,3'-Dichlorobenzidine | ug/L | 50 | 43.5J | 39.8J | 87 | 80 | 61-125 | | 20 | |
| 3-Nitroaniline | ug/L | 50 | 42.3 | 43.6 | 85 | 87 | 54-125 | 3 | 20 | |
| 4,6-Dinitro-2-methylphenol | ug/L | 50 | 37.1 | 38.0 | 74 | 76 | 60-125 | 2 | 20 | |
| 4-Bromophenylphenyl ether | ug/L | 50 | 37.2 | 38.1 | 74 | 76 | 67-125 | 2 | 20 | |
| 4-Chloro-3-methylphenol | ug/L | 50 | 38.6 | 40.6 | 77 | 81 | 64-125 | 5 | 20 | |
| 4-Chloroaniline | ug/L | 50 | 35.4 | 36.5 | 71 | 73 | 56-125 | 3 | 20 | |
| 4-Chlorophenylphenyl ether | ug/L | 50 | 38.2 | 39.7 | 76 | 79 | 58-125 | 4 | 20 | |
| 4-Nitroaniline | ug/L | 50 | 40.1 | 42.0 | 80 | 84 | 59-125 | 5 | 20 | |
| 4-Nitrophenol | ug/L | 50 | 42.7 | 45.9 | 85 | 92 | 30-125 | 7 | 20 | |
| Acenaphthene | ug/L | 50 | 37.8 | 38.5 | 76 | 77 | 57-125 | 2 | 20 | |
| Acenaphthylene | ug/L | 50 | 37.2 | 38.8 | 74 | 78 | 56-125 | 4 | 20 | |
| Anthracene | ug/L | 50 | 37.8 | 39.5 | 76 | 79 | 70-125 | 4 | 20 | |
| Benzo(a)anthracene | ug/L | 50 | 39.6 | 41.4 | 79 | 83 | 70-125 | 4 | 20 | |
| Benzo(a)pyrene | ug/L | 50 | 40.5 | 41.2 | 81 | 82 | 71-125 | 2 | 20 | |
| Benzo(b)fluoranthene | ug/L | 50 | 40.3 | 41.4 | 81 | 83 | 71-125 | 3 | 20 | |
| Benzo(g,h,i)perylene | ug/L | 50 | 40.1 | 41.5 | 80 | 83 | 71-125 | 3 | 20 | |
| Benzo(k)fluoranthene | ug/L | 50 | 39.5 | 40.6 | 79 | 81 | 72-125 | 3 | 20 | |
| bis(2-Chloroethoxy)methane | ug/L | 50 | 36.5 | 37.6 | 73 | 75 | 63-125 | 3 | 20 | |
| bis(2-Chloroethyl) ether | ug/L | 50 | 37.2 | 37.8 | 74 | 76 | 52-125 | 2 | 20 | |
| bis(2-Chloroisopropyl) ether | ug/L | 50 | 36.4 | 37.8 | 73 | 76 | 43-125 | 4 | 20 | |
| bis(2-Ethylhexyl)phthalate | ug/L | 50 | 38.8 | 40.9 | 78 | 82 | 70-125 | 5 | 20 | |
| Butylbenzylphthalate | ug/L | 50 | 38.8 | 40.3 | 78 | 81 | 69-125 | 4 | 20 | |
| Carbazole | ug/L | 50 | 39.2 | 40.3 | 78 | 81 | 70-125 | 3 | 20 | |
| Chrysene | ug/L | 50 | 39.4 | 41.0 | 79 | 82 | 71-125 | 4 | 20 | |
| Di-n-butylphthalate | ug/L | 50 | 38.5 | 39.7 | 77 | 79 | 70-125 | 3 | 20 | |
| Di-n-octylphthalate | ug/L | 50 | 39.3 | 40.6 | 79 | 81 | 69-125 | 3 | 20 | |
| Dibenz(a,h)anthracene | ug/L | 50 | 42.0 | 43.9 | 84 | 88 | 71-125 | 4 | 20 | |
| Dibenzofuran | ug/L | 50 | 37.4 | 39.1 | 75 | 78 | 59-125 | 4 | 20 | |
| Diethylphthalate | ug/L | 50 | 39.8 | 40.2 | 80 | 80 | 57-125 | 1 | 20 | |
| Dimethylphthalate | ug/L | 50 | 38.6 | 40.3 | 77 | 81 | 60-125 | 4 | 20 | |
| Fluoranthene | ug/L | 50 | 38.6 | 39.6 | 77 | 79 | 70-125 | 3 | 20 | |
| Fluorene | ug/L | 50 | 39.3 | 40.3 | 79 | 81 | 60-125 | 3 | 20 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 28.0 | 32.5 | 56 | 65 | 30-125 | 15 | 20 | |
| Hexachlorobenzene | ug/L | 50 | 37.7 | 39.8 | 75 | 80 | 66-125 | 6 | 20 | |
| Hexachloroethane | ug/L | 50 | 20.7 | 26.5 | 41 | 53 | 30-125 | 25 | 20 | R1 |

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Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

LABORATORY CONTROL SAMPLE & LCSD: 3632311 3632312

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Indeno(1,2,3-cd)pyrene | ug/L | 50 | 41.3 | 41.8 | 83 | 84 | 71-125 | 1 | 20 | |
| Isophorone | ug/L | 50 | 37.4 | 38.9 | 75 | 78 | 65-125 | 4 | 20 | |
| N-Nitroso-di-n-propylamine | ug/L | 50 | 37.0 | 38.6 | 74 | 77 | 58-125 | 4 | 20 | |
| N-Nitrosodimethylamine | ug/L | 50 | 37.6 | 38.1 | 75 | 76 | 30-125 | 1 | 20 | |
| N-Nitrosodiphenylamine | ug/L | 50 | 37.8 | 38.6 | 76 | 77 | 67-125 | 2 | 20 | |
| Naphthalene | ug/L | 50 | 34.2 | 36.1 | 68 | 72 | 39-125 | 6 | 20 | |
| Nitrobenzene | ug/L | 50 | 36.7 | 37.0 | 73 | 74 | 56-125 | 1 | 20 | |
| Pentachlorophenol | ug/L | 50 | 36.7 | 38.6 | 73 | 77 | 42-125 | 5 | 20 | |
| Phenanthrene | ug/L | 50 | 37.6 | 38.8 | 75 | 78 | 71-125 | 3 | 20 | |
| Phenol | ug/L | 50 | 37.9 | 38.6 | 76 | 77 | 30-125 | 2 | 20 | |
| Pyrene | ug/L | 50 | 39.2 | 40.7 | 78 | 81 | 69-125 | 4 | 20 | |
| 2,4,6-Tribromophenol (S) | %. | | | | 79 | 82 | 30-125 | | | |
| 2-Fluorobiphenyl (S) | %. | | | | 71 | 74 | 30-125 | | | |
| 2-Fluorophenol (S) | %. | | | | 69 | 71 | 30-125 | | | |
| Nitrobenzene-d5 (S) | %. | | | | 73 | 75 | 30-125 | | | |
| p-Terphenyl-d14 (S) | %. | | | | 78 | 82 | 30-125 | | | |
| Phenol-d6 (S) | %. | | | | 73 | 74 | 30-125 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

QC Batch: 678666
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO Low Volume GCS
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10519846001, 10519846002

METHOD BLANK: 3631832 Matrix: Water
Associated Lab Samples: 10519846001, 10519846002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| WDRO C10-C28 | mg/L | ND | 0.10 | 0.034 | 06/03/20 20:50 | |
| n-Triacontane (S) | %. | 71 | 50-150 | | 06/03/20 20:50 | |

LABORATORY CONTROL SAMPLE & LCSD: 3631833 3631834

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| WDRO C10-C28 | mg/L | 0.8 | 0.63 | 0.67 | 79 | 84 | 75-115 | 6 | 20 | |
| n-Triacontane (S) | %. | | | | 83 | 82 | 50-150 | | | |

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(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10519846

QC Batch: 678815
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10519846001, 10519846002

LABORATORY CONTROL SAMPLE: 3632575

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 5 | 5.0 | 100 | 98-102 | H6 |

SAMPLE DUPLICATE: 3632576

| Parameter | Units | 10518398001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 7.4 | 7.4 | 0 | 3 | H6 |

SAMPLE DUPLICATE: 3632577

| Parameter | Units | 10518398002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 7.6 | 7.6 | 0 | 3 | H6 |

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(612)607-1700

# QUALIFIERS

Project: 60618753 P1007
Pace Project No.: 10519846

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## BATCH QUALIFIERS

Batch: 679188

| | |
|---|---|
| [M5] | A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. |

## ANALYTE QUALIFIERS

| | |
|---|---|
| G- | Early peaks present outside the GRO window. |
| H6 | Analysis initiated outside of the 15 minute EPA required holding time. |
| R1 | RPD value was outside control limits. |
| T6 | High boiling point hydrocarbons are present in the sample. |
| T7 | Low boiling point hydrocarbons are present in the sample. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 P1007
Pace Project No.: 10519846

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10519846001** | **FRAC-WT1-052920** | WI MOD DRO | 678666 | WI MOD DRO | 678980 |
| **10519846002** | **FRAC-WT2-052920** | WI MOD DRO | 678666 | WI MOD DRO | 678980 |
| **10519846001** | **FRAC-WT1-052920** | WI MOD GRO | 679178 | | |
| **10519846002** | **FRAC-WT2-052920** | WI MOD GRO | 679178 | | |
| **10519846003** | **TRIP BLANK** | WI MOD GRO | 679178 | | |
| **10519846001** | **FRAC-WT1-052920** | EPA 3010A | 678919 | EPA 6010D | 679061 |
| **10519846002** | **FRAC-WT2-052920** | EPA 3010A | 678919 | EPA 6010D | 679061 |
| **10519846001** | **FRAC-WT1-052920** | EPA 7470A | 678915 | EPA 7470A | 679082 |
| **10519846002** | **FRAC-WT2-052920** | EPA 7470A | 678915 | EPA 7470A | 679082 |
| **10519846001** | **FRAC-WT1-052920** | EPA 3520C | 678753 | EPA 8270E | 679188 |
| **10519846002** | **FRAC-WT2-052920** | EPA 3520C | 678753 | EPA 8270E | 679188 |
| **10519846001** | **FRAC-WT1-052920** | EPA 8260B | 678972 | | |
| **10519846002** | **FRAC-WT2-052920** | EPA 8260B | 678972 | | |
| **10519846003** | **TRIP BLANK** | EPA 8260B | 678972 | | |
| **10519846001** | **FRAC-WT1-052920** | SM 4500-H+B | 678815 | | |
| **10519846002** | **FRAC-WT2-052920** | SM 4500-H+B | 678815 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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www.pacelabs.com



2295417

**Section A** — Required Client Information:

| | |
|---|---|
| Company: | AECOM |
| Address: | 300 LaSalle Ave Suite 1100 Minneapolis, MN 55403 |
| Email To: | andrew.tavara@aecom.com |
| Phone: 612 376 2452 | Fax: |
| Requested Due Date/TAT: | ASAP |

**Section B** — Required Project Information:

| | |
|---|---|
| Report To: | Drew Tavara |
| Copy To: | Amanda Lanning |
| Purchase Order No.: | |
| Project Name: | P1007 |
| Project Number: | 60618753 |

**Section C** — Invoice Information:

| | |
|---|---|
| Attention: | Same |
| Company Name: | |
| Address: | |
| Pace Quote Reference: | |
| Pace Project Manager: | |
| Pace Profile #: | 22815 |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

**Section D** — Required Client Information

**SAMPLE ID** (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COMPOSITE START TIME | COMPOSITE END/GRAB DATE | COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | DRO | GRO | VOC | SVOC | pH | TCLP RCRA8 | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Y/N | N | N | N | N | N | N | | |
| 1 | FRAC-WT1-052920 | WT | G | 5/29 | | 5/29/20 | 1515 | | 13 | X | | | X | | | | | | X | X | X | X | X | X | | 001 |
| 2 | FRAC-WT2-052920 | WT | G | | | 5/29/20 | 1530 | | 13 | X | | | X | | | | | | X | X | X | X | X | X | | 002 |
| 3 | TRIP BLANK | WT | G | | | | | | 4 | | | | X | | | | | | | X | X | | | | | 003 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |

WO#: 10519846

10519846

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| | AT / AECOM | 5/29/20 | 1600 | AECOM | 5/29/20 | 1600 | | | | |
| | Alex Seviem/AECOM | 6/1/20 | 1717 | Pace | 6/1/20 | 1717 | 0.9 | Y | N | Y |
| | | | | | | | 3.6 | | | |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Andrew J. Tavara

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/29/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



ORIGINAL

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt (SCUR) - MN** | Document Revised: 27Mar2020 **Page 1 of 1** |
|---|---|---|
| | Document No.: **ENV-FRM-MIN4-0150 Rev.00** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt**

**Client Name:** AECOM

**Project #:** WO#: 10519846
PM: TS1 Due Date: 06/16/20
CLIENT: AECOM

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

**Tracking Number:** _____

**Custody Seal on Cooler/Box Present?** ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

**Thermometer:** ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☑ T5(0489) **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

**Did Samples Originate in West Virginia?** ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 0.9,3.6 °C

**Average Corrected Temp (no temp blank only):** ☐ See Exceptions ☐ 1 Container _____ °C

**Correction Factor:** 0.0 **Cooler Temp Corrected w/temp blank :** 0.9,3.6 °C

**USDA Regulated Soil:** (☑ N/A, water sample/Other: _____)

**Date/Initials of Person Examining Contents:** 6/1/20 LJ

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | **COMMENTS:** |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☑ Yes | ☐ No | | 1. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | | 2. |
| Sampler Name and/or Signature on COC? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☑ No | | 5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____ |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | | 6. |
| Sufficient Volume? | ☑ Yes | ☐ No | | 7. |
| Correct Containers Used? | ☑ Yes | ☐ No | | 8. |
| -Pace Containers Used? | ☑ Yes | ☐ No | | |
| Containers Intact? | ☑ Yes | ☐ No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 10. Is sediment visible in the dissolved container? ☐ Yes ☐ No |
| Is sufficient information available to reconcile the samples to the COC? | ☑ Yes | ☐ No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other _____ | | | | |
| All containers needing acid/base preservation have been checked? | ☐ Yes | ☐ No | ☑ N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☐ Yes | ☐ No | ☑ N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☑ Yes | ☐ No | ☐ N/A | Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☐ Yes | ☐ No | ☑ N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐ Yes | ☑ No | ☐ N/A | |
| Trip Blank Present? | ☑ Yes | ☐ No | ☐ N/A | 14. |
| Trip Blank Custody Seals Present? | ☑ Yes | ☐ No | ☐ N/A | Pace Trip Blank Lot # (if purchased): 258244(4) |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

**Project Manager Review:** Jma Sbani **Date:** 6/2/20

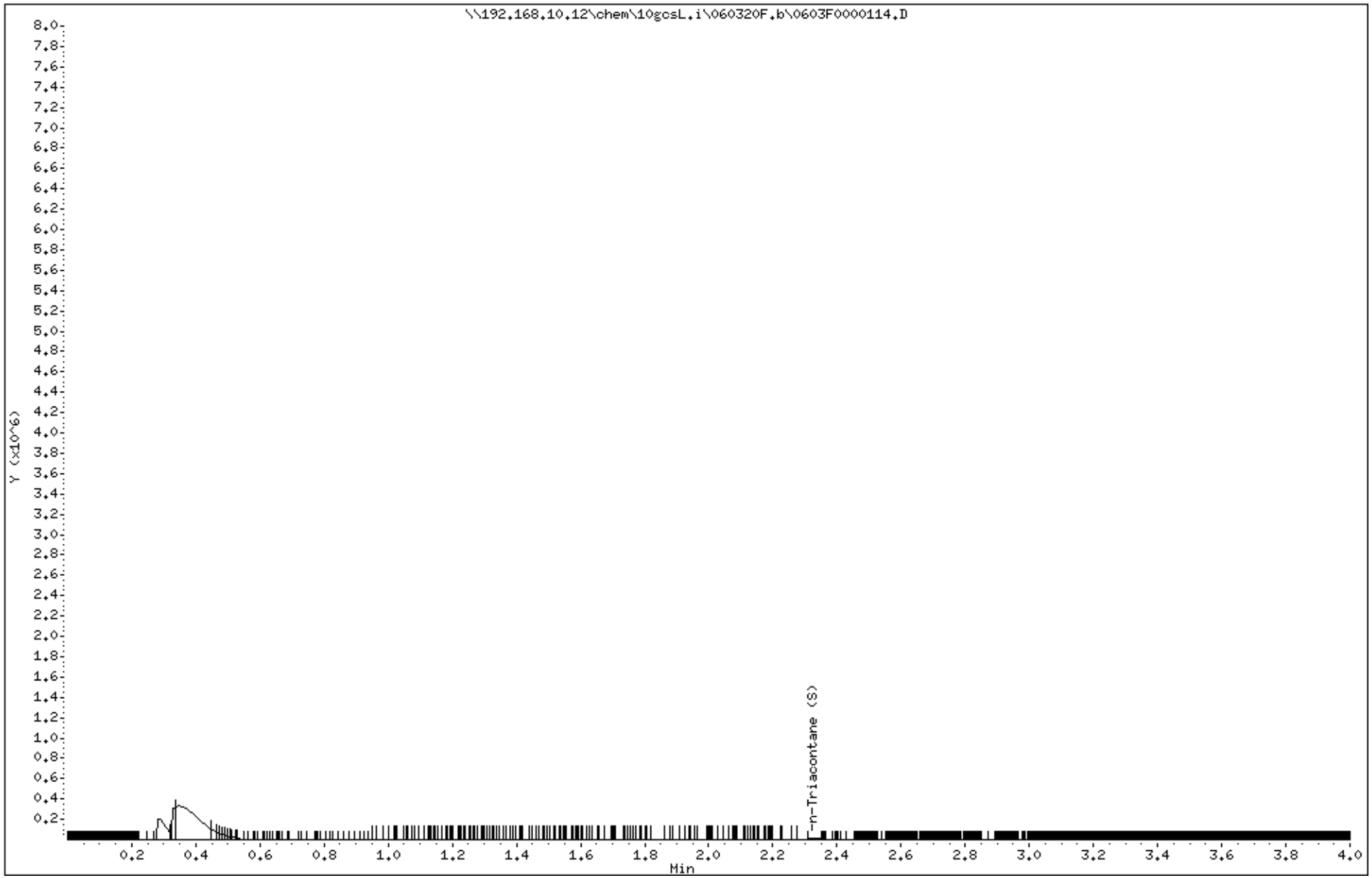
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).



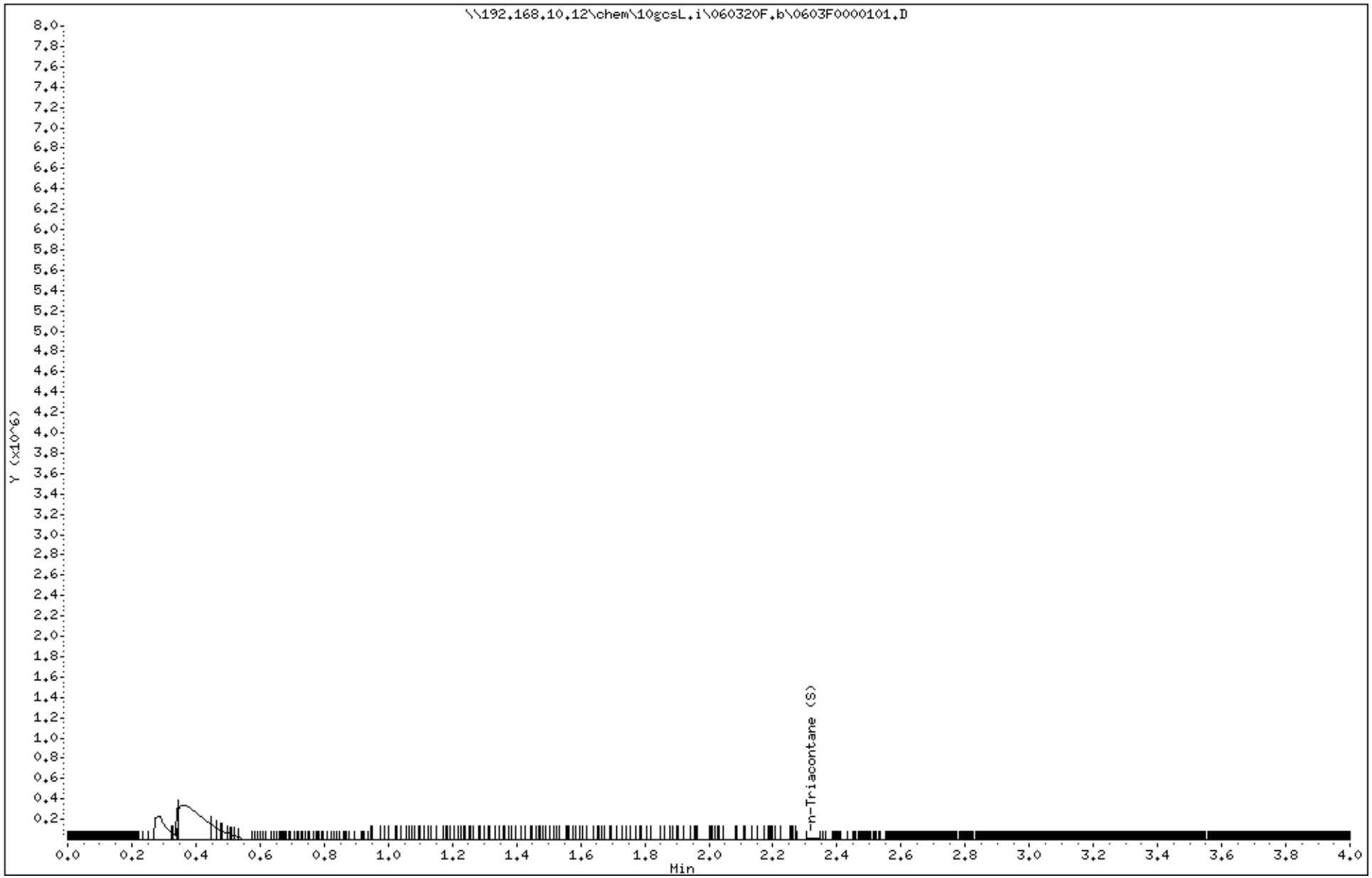
Labeled by: LJ 2

Data File: \\192.168.10.12\chem\10gcsL.i\060320F.b\0603F0000114.D
Date : 03-JUN-2020 23:19
Client ID: FRAC-WT1-052920
Sample Info: 10519846001
Volume Injected (uL): 1.0
Column phase: DB-5-US20120014

Instrument: 10gcsL.i
Operator: TT2
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcsL.i\060320F.b\0603F0000101.D
Date : 03-JUN-2020 21:47
Client ID: FRAC-WT2-052920
Instrument: 10gcsL.i
Sample Info: 10519846002
Volume Injected (uL): 1.0
Operator: TT2
Column phase: DB-5-US20120014
Column diameter: 0.32



**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
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(612)607-1700

January 29, 2020

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60618753 P1007
Pace Project No.: 10505336

Dear Andrew Tarara:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Amanda Lanning, AECOM



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# CERTIFICATIONS

Project: 60618753 P1007
Pace Project No.: 10505336

**Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01



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## SAMPLE SUMMARY

Project: 60618753 P1007
Pace Project No.: 10505336

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10505336001** | **LAKEELMO-IDW-01-011420** | Solid | 01/14/20 16:00 | 01/15/20 07:51 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | Solid | 01/14/20 16:15 | 01/15/20 07:51 |
| **10505336003** | **Trip Blank** | Solid | 01/14/20 00:00 | 01/15/20 07:51 |



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## SAMPLE ANALYTE COUNT

Project: 60618753 P1007
Pace Project No.: 10505336

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **10505336001** | **LAKEELMO-IDW-01-011420** | EPA 8082A | RAG | 12 |
| | | WI MOD DRO | JVM | 2 |
| | | EPA 6010D | DM | 7 |
| | | EPA 7471B | LMW | 1 |
| | | ASTM D2974 | BTS | 1 |
| | | EPA 8270D | STB | 72 |
| | | EPA 8260B | CD2 | 70 |
| | | EPA 9045D | SH4 | 1 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | EPA 8082A | RAG | 12 |
| | | WI MOD DRO | JVM | 2 |
| | | EPA 6010D | DM | 7 |
| | | EPA 7471B | LMW | 1 |
| | | ASTM D2974 | BTS | 1 |
| | | EPA 8270D | CH3 | 72 |
| | | EPA 8260B | CD2 | 70 |
| | | EPA 9045D | SH4 | 1 |
| **10505336003** | **Trip Blank** | EPA 8260B | AB2 | 70 |



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## SUMMARY OF DETECTION

Project: 60618753 P1007
Pace Project No.: 10505336

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10505336001** | **LAKEELMO-IDW-01-011420** | | | | | |
| EPA 6010D | Arsenic | 1.8 | mg/kg | 1.0 | 01/21/20 12:26 | |
| EPA 6010D | Barium | 16.6 | mg/kg | 0.51 | 01/21/20 12:26 | |
| EPA 6010D | Chromium | 13.7 | mg/kg | 0.51 | 01/21/20 12:26 | |
| EPA 6010D | Lead | 2.8 | mg/kg | 0.51 | 01/21/20 12:26 | |
| ASTM D2974 | Percent Moisture | 10 | % | 0.10 | 01/20/20 14:58 | N2 |
| EPA 9045D | pH at 25 Degrees C | 7.7 | Std. Units | 0.10 | 01/23/20 14:15 | |
| **10505336002** | **LAKEELMO-IDW-02-011420** | | | | | |
| EPA 6010D | Arsenic | 1.1 | mg/kg | 1.1 | 01/21/20 12:28 | |
| EPA 6010D | Barium | 13.2 | mg/kg | 0.55 | 01/21/20 12:28 | |
| EPA 6010D | Chromium | 10.9 | mg/kg | 0.55 | 01/21/20 12:28 | |
| EPA 6010D | Lead | 1.7 | mg/kg | 0.55 | 01/21/20 12:28 | |
| ASTM D2974 | Percent Moisture | 10.9 | % | 0.10 | 01/20/20 15:00 | N2 |
| EPA 9045D | pH at 25 Degrees C | 8.1 | Std. Units | 0.10 | 01/23/20 14:23 | |



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **EPA 8082A**
**Description:** 8082A GCS PCB
**Client:** AECOM MN ND
**Date:** January 29, 2020

**General Information:**
2 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **WI MOD DRO**
**Description:** WIDRO GCS
**Client:** AECOM MN ND
**Date:** January 29, 2020

**General Information:**
2 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: 654917

D5: The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.

- LAKEELMO-IDW-01-011420 (Lab ID: 10505336001)
  - n-Triacontane (S)
- LAKEELMO-IDW-02-011420 (Lab ID: 10505336002)
  - n-Triacontane (S)



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **EPA 6010D**
**Description:** 6010D MET ICP
**Client:** AECOM MN ND
**Date:** January 29, 2020

**General Information:**
2 samples were analyzed for EPA 6010D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **EPA 7471B**
**Description:** 7471B Mercury
**Client:** AECOM MN ND
**Date:** January 29, 2020

**General Information:**
2 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **EPA 8270D**
**Description:** 8270D MSSV
**Client:** AECOM MN ND
**Date:** January 29, 2020

**General Information:**
2 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **EPA 8260B**
**Description:** 8260B MSV 5030 Med Level
**Client:** AECOM MN ND
**Date:** January 29, 2020

**General Information:**
3 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 655957

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10506026002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3524168)
  - Dichlorofluoromethane
  - Tetrahydrofuran

R1: RPD value was outside control limits.

- MSD (Lab ID: 3524168)
  - Dichlorofluoromethane

**Additional Comments:**



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **EPA 8260B**
**Description:** 8260B MSV 5030 Med Level
**Client:** AECOM MN ND
**Date:** January 29, 2020

Analyte Comments:

QC Batch: 655957

- BLANK (Lab ID: 3524165)
  - Dichlorofluoromethane
- LAKEELMO-IDW-01-011420 (Lab ID: 10505336001)
  - Dichlorofluoromethane
- LAKEELMO-IDW-02-011420 (Lab ID: 10505336002)
  - Dichlorofluoromethane
- LCS (Lab ID: 3524166)
  - Dichlorofluoromethane
- MS (Lab ID: 3524167)
  - Dichlorofluoromethane
- MSD (Lab ID: 3524168)
  - Dichlorofluoromethane
- Trip Blank (Lab ID: 10505336003)
  - Dichlorofluoromethane



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# PROJECT NARRATIVE

Project: 60618753 P1007
Pace Project No.: 10505336

**Method:** **EPA 9045D**
**Description:** 9045D pH
**Client:** AECOM MN ND
**Date:** January 29, 2020

**General Information:**
2 samples were analyzed for EPA 9045D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-01-011420** **Lab ID: 10505336001** Collected: 01/14/20 16:00 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3550 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 36.7 | 10.2 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 36.7 | 12.9 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 36.7 | 14.7 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 36.7 | 12.4 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 36.7 | 11.0 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 36.7 | 10.8 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 36.7 | 8.8 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | ND | ug/kg | 36.7 | 12.7 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | ND | ug/kg | 36.7 | 11.9 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 11100-14-4 | |
| PCB, Total | ND | ug/kg | 36.7 | 8.8 | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 96 | %. | 46-146 | | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 877-09-8 | |
| Decachlorobiphenyl (S) | 84 | %. | 48-139 | | 1 | 01/16/20 14:28 | 01/21/20 20:22 | 2051-24-3 | |
| **WIDRO GCS** | Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO | | | | | | | | |
| WDRO C10-C28 | ND | mg/kg | 11.1 | 4.3 | 1 | 01/16/20 08:09 | 01/19/20 14:51 | | |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 94 | %. | 50-150 | | 1 | 01/16/20 08:09 | 01/19/20 14:51 | 638-68-6 | D5 |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B | | | | | | | | |
| Arsenic | **1.8** | mg/kg | 1.0 | 0.21 | 1 | 01/16/20 13:23 | 01/21/20 12:26 | 7440-38-2 | |
| Barium | **16.6** | mg/kg | 0.51 | 0.081 | 1 | 01/16/20 13:23 | 01/21/20 12:26 | 7440-39-3 | |
| Cadmium | ND | mg/kg | 0.15 | 0.031 | 1 | 01/16/20 13:23 | 01/21/20 12:26 | 7440-43-9 | |
| Chromium | **13.7** | mg/kg | 0.51 | 0.10 | 1 | 01/16/20 13:23 | 01/21/20 12:26 | 7440-47-3 | |
| Lead | **2.8** | mg/kg | 0.51 | 0.12 | 1 | 01/16/20 13:23 | 01/21/20 12:26 | 7439-92-1 | |
| Selenium | ND | mg/kg | 1.0 | 0.34 | 1 | 01/16/20 13:23 | 01/21/20 12:26 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.51 | 0.037 | 1 | 01/16/20 13:23 | 01/21/20 12:26 | 7440-22-4 | |
| **7471B Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B | | | | | | | | |
| Mercury | ND | mg/kg | 0.020 | 0.0088 | 1 | 01/16/20 13:52 | 01/17/20 14:40 | 7439-97-6 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974 | | | | | | | | |
| Percent Moisture | **10** | % | 0.10 | 0.10 | 1 | | 01/20/20 14:58 | | N2 |
| **8270D MSSV** | Analytical Method: EPA 8270D Preparation Method: EPA 3550 | | | | | | | | |
| Acenaphthene | ND | ug/kg | 367 | 39.1 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 367 | 46.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 208-96-8 | |
| Anthracene | ND | ug/kg | 367 | 43.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 367 | 37.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 367 | 41.5 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 367 | 35.9 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 367 | 39.2 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 367 | 45.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 207-08-9 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 367 | 43.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 367 | 33.6 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 85-68-7 | |

## REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

# ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-01-011420** **Lab ID: 10505336001** Collected: 01/14/20 16:00 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270D MSSV** | Analytical Method: EPA 8270D Preparation Method: EPA 3550 | | | | | | | | |
| Carbazole | ND | ug/kg | 367 | 30.4 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 86-74-8 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 367 | 58.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 367 | 97.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 367 | 37.5 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 367 | 59.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 367 | 37.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 367 | 32.4 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 367 | 41.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 367 | 45.4 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 367 | 38.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 367 | 39.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 367 | 46.4 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 367 | 38.4 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 367 | 53.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 367 | 40.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 367 | 123 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 367 | 61.2 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 367 | 32.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 367 | 143 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 367 | 49.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 367 | 50.2 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 1890 | 363 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 367 | 171 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 367 | 46.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 121-14-2 | |
| 2,6-Dinitrotoluene | ND | ug/kg | 367 | 48.5 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/kg | 367 | 42.5 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 117-84-0 | |
| 1,2-Diphenylhydrazine | ND | ug/kg | 367 | 45.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 122-66-7 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 367 | 76.4 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 367 | 42.1 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 206-44-0 | |
| Fluorene | ND | ug/kg | 367 | 168 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 367 | 55.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 367 | 59.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 118-74-1 | |
| Hexachloroethane | ND | ug/kg | 367 | 47.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 367 | 22.1 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 193-39-5 | |
| Isophorone | ND | ug/kg | 367 | 28.2 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 367 | 33.9 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 367 | 33.1 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 367 | 48.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 733 | 20.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | | |
| Naphthalene | ND | ug/kg | 367 | 28.2 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 367 | 92.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 367 | 40.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 367 | 53.5 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 367 | 40.3 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 367 | 44.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 88-75-5 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-01-011420** **Lab ID: 10505336001** Collected: 01/14/20 16:00 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270D MSSV** | Analytical Method: EPA 8270D Preparation Method: EPA 3550 | | | | | | | | |
| 4-Nitrophenol | ND | ug/kg | 367 | 71.1 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 367 | 45.0 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 367 | 168 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 367 | 23.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 744 | 214 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 367 | 42.7 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 85-01-8 | |
| Phenol | ND | ug/kg | 367 | 49.4 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 108-95-2 | |
| Pyrene | ND | ug/kg | 367 | 27.9 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 367 | 40.2 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 367 | 47.2 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 367 | 56.8 | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 88-06-2 | |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 66 | %. | 42-125 | | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 66 | %. | 58-125 | | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 85 | %. | 65-125 | | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 1718-51-0 | |
| Phenol-d6 (S) | 66 | %. | 45-125 | | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 13127-88-3 | |
| 2-Fluorophenol (S) | 70 | %. | 37-125 | | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 78 | %. | 38-125 | | 1 | 01/16/20 16:15 | 01/17/20 12:41 | 118-79-6 | |
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| Acetone | ND | ug/kg | 1110 | 346 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 67-64-1 | |
| Allyl chloride | ND | ug/kg | 222 | 46.5 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 107-05-1 | |
| Benzene | ND | ug/kg | 55.5 | 3.1 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 55.5 | 3.4 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 55.5 | 19.2 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 55.5 | 19.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-27-4 | |
| Bromoform | ND | ug/kg | 222 | 84.1 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-25-2 | |
| Bromomethane | ND | ug/kg | 555 | 65.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 278 | 29.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 222 | 26.4 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 55.5 | 10.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 55.5 | 10.7 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 55.5 | 26.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 55.5 | 3.1 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 555 | 28.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-00-3 | |
| Chloroform | ND | ug/kg | 222 | 27.8 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 222 | 13.3 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 55.5 | 2.7 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 55.5 | 2.8 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 555 | 193 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 222 | 6.4 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 55.5 | 5.8 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 55.5 | 10.2 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 55.5 | 2.2 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 55.5 | 2.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 541-73-1 | |

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(612)607-1700

## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-01-011420** **Lab ID: 10505336001** Collected: 01/14/20 16:00 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 55.5 | 3.4 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 222 | 18.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/kg | 55.5 | 6.2 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 55.5 | 6.1 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 55.5 | 16.7 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 55.5 | 9.2 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 55.5 | 26.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 156-60-5 | |
| Dichlorofluoromethane | ND | ug/kg | 555 | 76.8 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-43-4 | |
| 1,2-Dichloropropane | ND | ug/kg | 55.5 | 9.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 55.5 | 7.7 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 222 | 6.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 55.5 | 25.7 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 55.5 | 8.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 55.5 | 7.7 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 10061-02-6 | |
| Diethyl ether (Ethyl ether) | ND | ug/kg | 222 | 34.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 60-29-7 | |
| Ethylbenzene | ND | ug/kg | 55.5 | 3.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 278 | 13.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 55.5 | 2.5 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/kg | 55.5 | 16.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 99-87-6 | |
| Methylene Chloride | ND | ug/kg | 222 | 105 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 278 | 11.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 55.5 | 6.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 222 | 52.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 55.5 | 3.0 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 103-65-1 | |
| Styrene | ND | ug/kg | 55.5 | 2.5 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 55.5 | 17.4 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 55.5 | 9.8 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 79-34-5 | |
| Tetrachloroethene | ND | ug/kg | 55.5 | 19.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/kg | 2220 | 80.8 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 109-99-9 | |
| Toluene | ND | ug/kg | 55.5 | 13.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 55.5 | 8.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 55.5 | 12.3 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 55.5 | 25.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 55.5 | 6.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 55.5 | 8.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 222 | 96.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 222 | 14.6 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 222 | 64.4 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 55.5 | 11.1 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 55.5 | 8.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 108-67-8 | |
| Vinyl chloride | ND | ug/kg | 22.2 | 10.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 167 | 12.9 | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 99 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 2037-26-5 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-01-011420** **Lab ID: 10505336001** Collected: 01/14/20 16:00 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/23/20 08:52 | 460-00-4 | |
| **9045D pH** | Analytical Method: EPA 9045D | | | | | | | | |
| pH at 25 Degrees C | **7.7** | Std. Units | 0.10 | 0.10 | 1 | | 01/23/20 14:15 | | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-02-011420** **Lab ID: 10505336002** Collected: 01/14/20 16:15 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3550 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 37.0 | 10.3 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 37.0 | 13.0 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 37.0 | 14.8 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 37.0 | 12.6 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 37.0 | 11.1 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 37.0 | 10.9 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 37.0 | 8.9 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | ND | ug/kg | 37.0 | 12.8 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | ND | ug/kg | 37.0 | 12.0 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 11100-14-4 | |
| PCB, Total | ND | ug/kg | 37.0 | 8.9 | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 92 | %. | 46-146 | | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 877-09-8 | |
| Decachlorobiphenyl (S) | 83 | %. | 48-139 | | 1 | 01/16/20 14:28 | 01/21/20 21:09 | 2051-24-3 | |
| **WIDRO GCS** | Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO | | | | | | | | |
| WDRO C10-C28 | ND | mg/kg | 11.2 | 4.4 | 1 | 01/16/20 08:09 | 01/19/20 15:47 | | |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 94 | %. | 50-150 | | 1 | 01/16/20 08:09 | 01/19/20 15:47 | 638-68-6 | D5 |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B | | | | | | | | |
| Arsenic | **1.1** | mg/kg | 1.1 | 0.23 | 1 | 01/16/20 13:23 | 01/21/20 12:28 | 7440-38-2 | |
| Barium | **13.2** | mg/kg | 0.55 | 0.087 | 1 | 01/16/20 13:23 | 01/21/20 12:28 | 7440-39-3 | |
| Cadmium | ND | mg/kg | 0.17 | 0.033 | 1 | 01/16/20 13:23 | 01/21/20 12:28 | 7440-43-9 | |
| Chromium | **10.9** | mg/kg | 0.55 | 0.11 | 1 | 01/16/20 13:23 | 01/21/20 12:28 | 7440-47-3 | |
| Lead | **1.7** | mg/kg | 0.55 | 0.12 | 1 | 01/16/20 13:23 | 01/21/20 12:28 | 7439-92-1 | |
| Selenium | ND | mg/kg | 1.1 | 0.36 | 1 | 01/16/20 13:23 | 01/21/20 12:28 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.55 | 0.040 | 1 | 01/16/20 13:23 | 01/21/20 12:28 | 7440-22-4 | |
| **7471B Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B | | | | | | | | |
| Mercury | ND | mg/kg | 0.022 | 0.010 | 1 | 01/16/20 13:52 | 01/17/20 14:43 | 7439-97-6 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974 | | | | | | | | |
| Percent Moisture | **10.9** | % | 0.10 | 0.10 | 1 | | 01/20/20 15:00 | | N2 |
| **8270D MSSV** | Analytical Method: EPA 8270D Preparation Method: EPA 3550 | | | | | | | | |
| Acenaphthene | ND | ug/kg | 370 | 39.5 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 370 | 47.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 208-96-8 | |
| Anthracene | ND | ug/kg | 370 | 43.4 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 370 | 38.0 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 370 | 42.0 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 370 | 36.3 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 370 | 39.6 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 370 | 46.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 207-08-9 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 370 | 44.1 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 370 | 33.9 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 85-68-7 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-02-011420** **Lab ID: 10505336002** Collected: 01/14/20 16:15 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270D MSSV** | Analytical Method: EPA 8270D Preparation Method: EPA 3550 | | | | | | | | |
| Carbazole | ND | ug/kg | 370 | 30.8 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 86-74-8 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 370 | 59.3 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 370 | 98.7 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 370 | 37.9 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 370 | 59.6 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 370 | 38.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 370 | 32.8 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 370 | 42.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 370 | 45.9 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 370 | 39.1 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 370 | 39.4 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 370 | 46.9 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 370 | 38.8 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 370 | 54.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 370 | 41.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 370 | 124 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 370 | 61.8 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 370 | 33.0 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 370 | 145 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 370 | 50.3 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 370 | 50.7 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 1910 | 367 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 370 | 173 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 370 | 47.1 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 121-14-2 | |
| 2,6-Dinitrotoluene | ND | ug/kg | 370 | 49.0 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/kg | 370 | 43.0 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 117-84-0 | |
| 1,2-Diphenylhydrazine | ND | ug/kg | 370 | 45.5 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 122-66-7 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 370 | 77.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 370 | 42.5 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 206-44-0 | |
| Fluorene | ND | ug/kg | 370 | 169 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 370 | 56.3 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 370 | 60.4 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 118-74-1 | |
| Hexachloroethane | ND | ug/kg | 370 | 48.1 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 370 | 22.3 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 193-39-5 | |
| Isophorone | ND | ug/kg | 370 | 28.5 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 370 | 34.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 370 | 33.4 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 370 | 48.5 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 741 | 20.9 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | | |
| Naphthalene | ND | ug/kg | 370 | 28.5 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 370 | 92.9 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 370 | 40.4 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 370 | 54.1 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 370 | 40.7 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 370 | 45.1 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 88-75-5 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-02-011420** **Lab ID: 10505336002** Collected: 01/14/20 16:15 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270D MSSV** | Analytical Method: EPA 8270D Preparation Method: EPA 3550 | | | | | | | | |
| 4-Nitrophenol | ND | ug/kg | 370 | 71.8 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 370 | 45.5 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 370 | 169 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 370 | 24.0 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 752 | 217 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 370 | 43.1 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 85-01-8 | |
| Phenol | ND | ug/kg | 370 | 49.9 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 108-95-2 | |
| Pyrene | ND | ug/kg | 370 | 28.2 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 370 | 40.6 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 370 | 47.7 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 370 | 57.3 | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 88-06-2 | |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 66 | %. | 42-125 | | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 64 | %. | 58-125 | | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 85 | %. | 65-125 | | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 1718-51-0 | |
| Phenol-d6 (S) | 65 | %. | 45-125 | | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 13127-88-3 | |
| 2-Fluorophenol (S) | 68 | %. | 37-125 | | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 71 | %. | 38-125 | | 1 | 01/16/20 16:15 | 01/17/20 13:54 | 118-79-6 | |
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| Acetone | ND | ug/kg | 1090 | 339 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 67-64-1 | |
| Allyl chloride | ND | ug/kg | 218 | 45.7 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 107-05-1 | |
| Benzene | ND | ug/kg | 54.5 | 3.1 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 54.5 | 3.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 54.5 | 18.9 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 54.5 | 18.6 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-27-4 | |
| Bromoform | ND | ug/kg | 218 | 82.5 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-25-2 | |
| Bromomethane | ND | ug/kg | 545 | 63.8 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 272 | 29.0 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 218 | 25.9 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 54.5 | 10.4 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 54.5 | 10.5 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 54.5 | 26.1 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 54.5 | 3.1 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 545 | 28.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-00-3 | |
| Chloroform | ND | ug/kg | 218 | 27.2 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 218 | 13.1 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 54.5 | 2.7 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 54.5 | 2.8 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 545 | 190 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 218 | 6.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 54.5 | 5.7 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 54.5 | 10 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 54.5 | 2.2 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 54.5 | 2.0 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 541-73-1 | |

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(612)607-1700

## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-02-011420** **Lab ID: 10505336002** Collected: 01/14/20 16:15 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 54.5 | 3.4 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 218 | 17.7 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/kg | 54.5 | 6.1 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 54.5 | 6.0 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 54.5 | 16.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 54.5 | 9.0 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 54.5 | 25.5 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 156-60-5 | |
| Dichlorofluoromethane | ND | ug/kg | 545 | 75.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-43-4 | |
| 1,2-Dichloropropane | ND | ug/kg | 54.5 | 9.4 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 54.5 | 7.5 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 218 | 6.8 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 54.5 | 25.2 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 54.5 | 7.8 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 54.5 | 7.6 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 10061-02-6 | |
| Diethyl ether (Ethyl ether) | ND | ug/kg | 218 | 33.4 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 60-29-7 | |
| Ethylbenzene | ND | ug/kg | 54.5 | 3.0 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 272 | 13.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 54.5 | 2.4 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/kg | 54.5 | 16.6 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 99-87-6 | |
| Methylene Chloride | ND | ug/kg | 218 | 103 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 272 | 11.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 54.5 | 6.5 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 218 | 51.0 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 54.5 | 2.9 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 103-65-1 | |
| Styrene | ND | ug/kg | 54.5 | 2.5 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 54.5 | 17.1 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 54.5 | 9.6 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 79-34-5 | |
| Tetrachloroethene | ND | ug/kg | 54.5 | 19.2 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/kg | 2180 | 79.2 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 109-99-9 | |
| Toluene | ND | ug/kg | 54.5 | 13.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 54.5 | 8.7 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 54.5 | 12.1 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 54.5 | 25.4 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 54.5 | 6.5 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 54.5 | 8.4 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 218 | 95.0 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 218 | 14.3 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 218 | 63.2 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 54.5 | 10.9 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 54.5 | 8.7 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 108-67-8 | |
| Vinyl chloride | ND | ug/kg | 21.8 | 10.7 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 163 | 12.6 | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 103 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 2037-26-5 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: LAKEELMO-IDW-02-011420** **Lab ID: 10505336002** Collected: 01/14/20 16:15 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/23/20 09:14 | 460-00-4 | |
| **9045D pH** | Analytical Method: EPA 9045D | | | | | | | | |
| pH at 25 Degrees C | **8.1** | Std. Units | 0.10 | 0.10 | 1 | | 01/23/20 14:23 | | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: Trip Blank** **Lab ID: 10505336003** Collected: 01/14/20 00:00 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| Acetone | ND | ug/kg | 1000 | 311 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 67-64-1 | |
| Allyl chloride | ND | ug/kg | 500 | 41.9 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 107-05-1 | |
| Benzene | ND | ug/kg | 20.0 | 2.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 50.0 | 3.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 50.0 | 17.3 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 50.0 | 17.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-27-4 | |
| Bromoform | ND | ug/kg | 200 | 75.7 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-25-2 | |
| Bromomethane | ND | ug/kg | 500 | 58.5 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 250 | 26.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 50.0 | 23.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 50.0 | 9.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 50.0 | 9.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 50.0 | 23.9 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 50.0 | 2.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 500 | 26.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-00-3 | |
| Chloroform | ND | ug/kg | 200 | 25.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 200 | 12.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 50.0 | 2.5 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 50.0 | 2.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 500 | 174 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 200 | 5.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 50.0 | 5.3 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 50.0 | 9.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 50.0 | 2.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 50.0 | 1.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 50.0 | 3.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 200 | 16.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/kg | 50.0 | 5.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 50.0 | 5.5 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 50.0 | 15.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 50.0 | 8.3 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 50.0 | 23.4 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 156-60-5 | |
| Dichlorofluoromethane | ND | ug/kg | 500 | 69.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-43-4 | |
| 1,2-Dichloropropane | ND | ug/kg | 50.0 | 8.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 50.0 | 6.9 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 200 | 6.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 50.0 | 23.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 50.0 | 7.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 50.0 | 7.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 10061-02-6 | |
| Diethyl ether (Ethyl ether) | ND | ug/kg | 200 | 30.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 60-29-7 | |
| Ethylbenzene | ND | ug/kg | 50.0 | 2.7 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 250 | 12.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 50.0 | 2.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/kg | 50.0 | 15.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 99-87-6 | |
| Methylene Chloride | ND | ug/kg | 200 | 94.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-09-2 | |

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## ANALYTICAL RESULTS

Project: 60618753 P1007
Pace Project No.: 10505336

**Sample: Trip Blank** **Lab ID: 10505336003** Collected: 01/14/20 00:00 Received: 01/15/20 07:51 Matrix: Solid

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B MSV 5030 Med Level** | Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 250 | 10.4 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 50.0 | 6.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 200 | 46.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 50.0 | 2.7 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 103-65-1 | |
| Styrene | ND | ug/kg | 50.0 | 2.3 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 50.0 | 15.7 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 50.0 | 8.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 79-34-5 | |
| Tetrachloroethene | ND | ug/kg | 50.0 | 17.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/kg | 2000 | 72.7 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 109-99-9 | |
| Toluene | ND | ug/kg | 50.0 | 12.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 50.0 | 8.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 50.0 | 11.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 50.0 | 23.3 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 50.0 | 6.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 50.0 | 7.7 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 200 | 87.2 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 200 | 13.1 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 200 | 58.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 50.0 | 10.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 50.0 | 8.0 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 108-67-8 | |
| Vinyl chloride | ND | ug/kg | 20.0 | 9.8 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 150 | 11.6 | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 104 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 | %. | 75-125 | | 1 | 01/22/20 15:14 | 01/22/20 21:17 | 460-00-4 | |

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Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 654905 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids
Associated Lab Samples: 10505336001, 10505336002

METHOD BLANK: 3520146 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.018 | 0.0080 | 01/17/20 14:04 | |

LABORATORY CONTROL SAMPLE: 3520147

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.44 | 0.49 | 110 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3520148 3520149

| Parameter | Units | 10505436001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.53 | 0.47 | 0.54 | 0.52 | 103 | 108 | 80-120 | 4 | 20 | |

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# QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 654894
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Associated Lab Samples: 10505336001, 10505336002

METHOD BLANK: 3520110 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.94 | 0.19 | 01/21/20 12:03 | |
| Barium | mg/kg | ND | 0.47 | 0.075 | 01/21/20 12:03 | |
| Cadmium | mg/kg | ND | 0.14 | 0.028 | 01/21/20 12:03 | |
| Chromium | mg/kg | ND | 0.47 | 0.094 | 01/21/20 12:03 | |
| Lead | mg/kg | ND | 0.47 | 0.11 | 01/21/20 12:03 | |
| Selenium | mg/kg | ND | 0.94 | 0.31 | 01/21/20 12:03 | |
| Silver | mg/kg | ND | 0.47 | 0.034 | 01/21/20 12:03 | |

LABORATORY CONTROL SAMPLE: 3520111

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 47.2 | 46.7 | 99 | 80-120 | |
| Barium | mg/kg | 47.2 | 49.2 | 104 | 80-120 | |
| Cadmium | mg/kg | 47.2 | 48.7 | 103 | 80-120 | |
| Chromium | mg/kg | 47.2 | 49.2 | 104 | 80-120 | |
| Lead | mg/kg | 47.2 | 48.3 | 102 | 80-120 | |
| Selenium | mg/kg | 47.2 | 44.4 | 94 | 80-120 | |
| Silver | mg/kg | 23.6 | 24.1 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3520112 3520113

| Parameter | Units | 10505436001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 1.9 | 52 | 51 | 49.2 | 48.7 | 91 | 92 | 75-125 | 1 | 20 | |
| Barium | mg/kg | 29.7 | 52 | 51 | 81.4 | 84.3 | 99 | 107 | 75-125 | 3 | 20 | |
| Cadmium | mg/kg | ND | 52 | 51 | 47.5 | 46.4 | 91 | 91 | 75-125 | 2 | 20 | |
| Chromium | mg/kg | 6.9 | 52 | 51 | 60.8 | 56.7 | 103 | 97 | 75-125 | 7 | 20 | |
| Lead | mg/kg | 1.8 | 52 | 51 | 49.5 | 48.5 | 92 | 91 | 75-125 | 2 | 20 | |
| Selenium | mg/kg | ND | 52 | 51 | 44.8 | 43.1 | 86 | 84 | 75-125 | 4 | 20 | |
| Silver | mg/kg | ND | 26.1 | 25.5 | 25.0 | 24.3 | 96 | 95 | 75-125 | 3 | 20 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 655514 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10505336001, 10505336002

SAMPLE DUPLICATE: 3522476

| Parameter | Units | 10505658005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 50.0 | 48.8 | 2 | 30 | N2 |

SAMPLE DUPLICATE: 3522477

| Parameter | Units | 10505336001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 10 | 10.2 | 2 | 30 | N2 |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 655957 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10505336001, 10505336002, 10505336003

METHOD BLANK: 3524165 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002, 10505336003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | ND | 50.0 | 15.7 | 01/22/20 23:53 | |
| 1,1,1-Trichloroethane | ug/kg | ND | 50.0 | 23.3 | 01/22/20 23:53 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND | 50.0 | 8.8 | 01/22/20 23:53 | |
| 1,1,2-Trichloroethane | ug/kg | ND | 50.0 | 6.0 | 01/22/20 23:53 | |
| 1,1,2-Trichlorotrifluoroethane | ug/kg | ND | 200 | 58.0 | 01/22/20 23:53 | |
| 1,1-Dichloroethane | ug/kg | ND | 50.0 | 5.6 | 01/22/20 23:53 | |
| 1,1-Dichloroethene | ug/kg | ND | 50.0 | 15.0 | 01/22/20 23:53 | |
| 1,1-Dichloropropene | ug/kg | ND | 50.0 | 23.1 | 01/22/20 23:53 | |
| 1,2,3-Trichlorobenzene | ug/kg | ND | 50.0 | 8.0 | 01/22/20 23:53 | |
| 1,2,3-Trichloropropane | ug/kg | ND | 200 | 13.1 | 01/22/20 23:53 | |
| 1,2,4-Trichlorobenzene | ug/kg | ND | 50.0 | 11.1 | 01/22/20 23:53 | |
| 1,2,4-Trimethylbenzene | ug/kg | ND | 50.0 | 10.0 | 01/22/20 23:53 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | ND | 500 | 174 | 01/22/20 23:53 | |
| 1,2-Dibromoethane (EDB) | ug/kg | ND | 50.0 | 5.3 | 01/22/20 23:53 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 50.0 | 2.0 | 01/22/20 23:53 | |
| 1,2-Dichloroethane | ug/kg | ND | 50.0 | 5.5 | 01/22/20 23:53 | |
| 1,2-Dichloropropane | ug/kg | ND | 50.0 | 8.6 | 01/22/20 23:53 | |
| 1,3,5-Trimethylbenzene | ug/kg | ND | 50.0 | 8.0 | 01/22/20 23:53 | |
| 1,3-Dichlorobenzene | ug/kg | ND | 50.0 | 1.8 | 01/22/20 23:53 | |
| 1,3-Dichloropropane | ug/kg | ND | 50.0 | 6.9 | 01/22/20 23:53 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 50.0 | 3.1 | 01/22/20 23:53 | |
| 2,2-Dichloropropane | ug/kg | ND | 200 | 6.2 | 01/22/20 23:53 | |
| 2-Butanone (MEK) | ug/kg | ND | 250 | 26.6 | 01/22/20 23:53 | |
| 2-Chlorotoluene | ug/kg | ND | 50.0 | 2.5 | 01/22/20 23:53 | |
| 4-Chlorotoluene | ug/kg | ND | 50.0 | 2.6 | 01/22/20 23:53 | |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND | 250 | 10.4 | 01/22/20 23:53 | |
| Acetone | ug/kg | ND | 1000 | 311 | 01/22/20 23:53 | |
| Allyl chloride | ug/kg | ND | 200 | 41.9 | 01/22/20 23:53 | |
| Benzene | ug/kg | ND | 50.0 | 2.8 | 01/22/20 23:53 | MN |
| Bromobenzene | ug/kg | ND | 50.0 | 3.1 | 01/22/20 23:53 | |
| Bromochloromethane | ug/kg | ND | 50.0 | 17.3 | 01/22/20 23:53 | |
| Bromodichloromethane | ug/kg | ND | 50.0 | 17.1 | 01/22/20 23:53 | |
| Bromoform | ug/kg | ND | 200 | 75.7 | 01/22/20 23:53 | |
| Bromomethane | ug/kg | ND | 500 | 58.5 | 01/22/20 23:53 | |
| Carbon tetrachloride | ug/kg | ND | 50.0 | 23.9 | 01/22/20 23:53 | |
| Chlorobenzene | ug/kg | ND | 50.0 | 2.8 | 01/22/20 23:53 | |
| Chloroethane | ug/kg | ND | 500 | 26.0 | 01/22/20 23:53 | |
| Chloroform | ug/kg | ND | 200 | 25.0 | 01/22/20 23:53 | MN |
| Chloromethane | ug/kg | ND | 200 | 12.0 | 01/22/20 23:53 | |
| cis-1,2-Dichloroethene | ug/kg | ND | 50.0 | 8.3 | 01/22/20 23:53 | |
| cis-1,3-Dichloropropene | ug/kg | ND | 50.0 | 7.2 | 01/22/20 23:53 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

METHOD BLANK: 3524165 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002, 10505336003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Dibromochloromethane | ug/kg | ND | 200 | 5.8 | 01/22/20 23:53 | |
| Dibromomethane | ug/kg | ND | 50.0 | 9.2 | 01/22/20 23:53 | |
| Dichlorodifluoromethane | ug/kg | ND | 200 | 16.2 | 01/22/20 23:53 | |
| Dichlorofluoromethane | ug/kg | ND | 500 | 69.1 | 01/22/20 23:53 | |
| Diethyl ether (Ethyl ether) | ug/kg | ND | 200 | 30.6 | 01/22/20 23:53 | |
| Ethylbenzene | ug/kg | ND | 50.0 | 2.7 | 01/22/20 23:53 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 250 | 12.2 | 01/22/20 23:53 | |
| Isopropylbenzene (Cumene) | ug/kg | ND | 50.0 | 2.2 | 01/22/20 23:53 | |
| Methyl-tert-butyl ether | ug/kg | ND | 50.0 | 6.0 | 01/22/20 23:53 | |
| Methylene Chloride | ug/kg | ND | 200 | 94.1 | 01/22/20 23:53 | |
| n-Butylbenzene | ug/kg | ND | 200 | 23.8 | 01/22/20 23:53 | MN |
| n-Propylbenzene | ug/kg | ND | 50.0 | 2.7 | 01/22/20 23:53 | |
| Naphthalene | ug/kg | ND | 200 | 46.8 | 01/22/20 23:53 | |
| p-Isopropyltoluene | ug/kg | ND | 50.0 | 15.2 | 01/22/20 23:53 | |
| sec-Butylbenzene | ug/kg | ND | 50.0 | 9.6 | 01/22/20 23:53 | |
| Styrene | ug/kg | ND | 50.0 | 2.3 | 01/22/20 23:53 | |
| tert-Butylbenzene | ug/kg | ND | 50.0 | 9.6 | 01/22/20 23:53 | |
| Tetrachloroethene | ug/kg | ND | 50.0 | 17.6 | 01/22/20 23:53 | |
| Tetrahydrofuran | ug/kg | ND | 2000 | 72.7 | 01/22/20 23:53 | |
| Toluene | ug/kg | ND | 50.0 | 12.2 | 01/22/20 23:53 | |
| trans-1,2-Dichloroethene | ug/kg | ND | 50.0 | 23.4 | 01/22/20 23:53 | |
| trans-1,3-Dichloropropene | ug/kg | ND | 50.0 | 7.0 | 01/22/20 23:53 | |
| Trichloroethene | ug/kg | ND | 50.0 | 7.7 | 01/22/20 23:53 | |
| Trichlorofluoromethane | ug/kg | ND | 200 | 87.2 | 01/22/20 23:53 | |
| Vinyl chloride | ug/kg | ND | 20.0 | 9.8 | 01/22/20 23:53 | |
| Xylene (Total) | ug/kg | ND | 150 | 11.6 | 01/22/20 23:53 | |
| 1,2-Dichloroethane-d4 (S) | %. | 95 | 75-125 | | 01/22/20 23:53 | |
| 4-Bromofluorobenzene (S) | %. | 106 | 75-125 | | 01/22/20 23:53 | |
| Toluene-d8 (S) | %. | 101 | 75-125 | | 01/22/20 23:53 | |

LABORATORY CONTROL SAMPLE: 3524166

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | 1000 | 768 | 77 | 64-125 | |
| 1,1,1-Trichloroethane | ug/kg | 1000 | 816 | 82 | 60-135 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | 1000 | 847 | 85 | 61-125 | |
| 1,1,2-Trichloroethane | ug/kg | 1000 | 803 | 80 | 66-125 | |
| 1,1,2-Trichlorotrifluoroethane | ug/kg | 1000 | 831 | 83 | 51-136 | |
| 1,1-Dichloroethane | ug/kg | 1000 | 863 | 86 | 61-125 | |
| 1,1-Dichloroethene | ug/kg | 1000 | 839 | 84 | 45-136 | |
| 1,1-Dichloropropene | ug/kg | 1000 | 909 | 91 | 51-136 | |
| 1,2,3-Trichlorobenzene | ug/kg | 1000 | 795 | 80 | 63-125 | |
| 1,2,3-Trichloropropane | ug/kg | 1000 | 844 | 84 | 61-125 | |
| 1,2,4-Trichlorobenzene | ug/kg | 1000 | 794 | 79 | 61-125 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

LABORATORY CONTROL SAMPLE: 3524166

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ug/kg | 1000 | 818 | 82 | 63-126 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | 2500 | 2030 | 81 | 58-125 | |
| 1,2-Dibromoethane (EDB) | ug/kg | 1000 | 780 | 78 | 64-125 | |
| 1,2-Dichlorobenzene | ug/kg | 1000 | 801 | 80 | 62-125 | |
| 1,2-Dichloroethane | ug/kg | 1000 | 793 | 79 | 56-125 | |
| 1,2-Dichloropropane | ug/kg | 1000 | 824 | 82 | 64-125 | |
| 1,3,5-Trimethylbenzene | ug/kg | 1000 | 866 | 87 | 64-125 | |
| 1,3-Dichlorobenzene | ug/kg | 1000 | 789 | 79 | 62-125 | |
| 1,3-Dichloropropane | ug/kg | 1000 | 800 | 80 | 63-125 | |
| 1,4-Dichlorobenzene | ug/kg | 1000 | 782 | 78 | 60-125 | |
| 2,2-Dichloropropane | ug/kg | 1000 | 797 | 80 | 61-130 | |
| 2-Butanone (MEK) | ug/kg | 5000 | 4180 | 84 | 47-129 | |
| 2-Chlorotoluene | ug/kg | 1000 | 834 | 83 | 63-125 | |
| 4-Chlorotoluene | ug/kg | 1000 | 827 | 83 | 63-125 | |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 5000 | 3910 | 78 | 56-125 | |
| Acetone | ug/kg | 5000 | 4000 | 80 | 49-132 | |
| Allyl chloride | ug/kg | 1000 | 831 | 83 | 48-130 | |
| Benzene | ug/kg | 1000 | 874 | 87 | 59-125 | |
| Bromobenzene | ug/kg | 1000 | 799 | 80 | 61-125 | |
| Bromochloromethane | ug/kg | 1000 | 842 | 84 | 57-125 | |
| Bromodichloromethane | ug/kg | 1000 | 822 | 82 | 67-125 | |
| Bromoform | ug/kg | 1000 | 774 | 77 | 61-125 | |
| Bromomethane | ug/kg | 1000 | 910 | 91 | 44-136 | |
| Carbon tetrachloride | ug/kg | 1000 | 825 | 83 | 58-134 | |
| Chlorobenzene | ug/kg | 1000 | 801 | 80 | 60-125 | |
| Chloroethane | ug/kg | 1000 | 717 | 72 | 30-150 | |
| Chloroform | ug/kg | 1000 | 818 | 82 | 63-125 | |
| Chloromethane | ug/kg | 1000 | 799 | 80 | 43-125 | |
| cis-1,2-Dichloroethene | ug/kg | 1000 | 871 | 87 | 60-125 | |
| cis-1,3-Dichloropropene | ug/kg | 1000 | 803 | 80 | 63-125 | |
| Dibromochloromethane | ug/kg | 1000 | 730 | 73 | 61-125 | |
| Dibromomethane | ug/kg | 1000 | 779 | 78 | 62-125 | |
| Dichlorodifluoromethane | ug/kg | 1000 | 720 | 72 | 35-125 | |
| Dichlorofluoromethane | ug/kg | 1000 | 729 | 73 | 49-128 | |
| Diethyl ether (Ethyl ether) | ug/kg | 1000 | 782 | 78 | 42-127 | |
| Ethylbenzene | ug/kg | 1000 | 793 | 79 | 62-125 | |
| Hexachloro-1,3-butadiene | ug/kg | 1000 | 835 | 84 | 59-132 | |
| Isopropylbenzene (Cumene) | ug/kg | 1000 | 816 | 82 | 63-126 | |
| Methyl-tert-butyl ether | ug/kg | 1000 | 821 | 82 | 58-125 | |
| Methylene Chloride | ug/kg | 1000 | 908 | 91 | 50-125 | |
| n-Butylbenzene | ug/kg | 1000 | 837 | 84 | 60-129 | |
| n-Propylbenzene | ug/kg | 1000 | 900 | 90 | 63-126 | |
| Naphthalene | ug/kg | 1000 | 857 | 86 | 57-125 | |
| p-Isopropyltoluene | ug/kg | 1000 | 855 | 85 | 62-127 | |
| sec-Butylbenzene | ug/kg | 1000 | 839 | 84 | 64-128 | |
| Styrene | ug/kg | 1000 | 834 | 83 | 62-125 | |
| tert-Butylbenzene | ug/kg | 1000 | 904 | 90 | 62-129 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

LABORATORY CONTROL SAMPLE: 3524166

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Tetrachloroethene | ug/kg | 1000 | 850 | 85 | 56-133 | |
| Tetrahydrofuran | ug/kg | 10000 | 9560 | 96 | 58-126 | |
| Toluene | ug/kg | 1000 | 826 | 83 | 59-125 | |
| trans-1,2-Dichloroethene | ug/kg | 1000 | 883 | 88 | 46-134 | |
| trans-1,3-Dichloropropene | ug/kg | 1000 | 791 | 79 | 66-125 | |
| Trichloroethene | ug/kg | 1000 | 872 | 87 | 62-125 | |
| Trichlorofluoromethane | ug/kg | 1000 | 737 | 74 | 30-150 | |
| Vinyl chloride | ug/kg | 1000 | 893 | 89 | 44-127 | |
| Xylene (Total) | ug/kg | 3000 | 2540 | 85 | 65-125 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | 98 | 75-125 | |
| 4-Bromofluorobenzene (S) | %. | | | 100 | 75-125 | |
| Toluene-d8 (S) | %. | | | 99 | 75-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3524167 3524168

| Parameter | Units | 10506026002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | ND | 1270 | 1220 | 1200 | 1500 | 94 | 123 | 55-150 | 22 | 30 | |
| 1,1,1-Trichloroethane | ug/kg | ND | 1270 | 1220 | 1230 | 1520 | 97 | 125 | 48-150 | 21 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND | 1270 | 1220 | 1310 | 1640 | 103 | 135 | 47-150 | 22 | 30 | |
| 1,1,2-Trichloroethane | ug/kg | ND | 1270 | 1220 | 1240 | 1540 | 98 | 126 | 50-150 | 21 | 30 | |
| 1,1,2-Trichlorotrifluoroethane | ug/kg | ND | 1270 | 1220 | 1180 | 1280 | 92 | 105 | 43-150 | 9 | 30 | |
| 1,1-Dichloroethane | ug/kg | ND | 1270 | 1220 | 1320 | 1570 | 103 | 129 | 36-150 | 17 | 30 | |
| 1,1-Dichloroethene | ug/kg | ND | 1270 | 1220 | 1220 | 1460 | 96 | 120 | 43-150 | 18 | 30 | |
| 1,1-Dichloropropene | ug/kg | ND | 1270 | 1220 | 1350 | 1640 | 106 | 135 | 38-150 | 19 | 30 | |
| 1,2,3-Trichlorobenzene | ug/kg | ND | 1270 | 1220 | 1280 | 1590 | 100 | 130 | 48-150 | 22 | 30 | |
| 1,2,3-Trichloropropane | ug/kg | ND | 1270 | 1220 | 1280 | 1560 | 101 | 128 | 48-150 | 20 | 30 | |
| 1,2,4-Trichlorobenzene | ug/kg | ND | 1270 | 1220 | 1270 | 1590 | 100 | 131 | 46-150 | 23 | 30 | |
| 1,2,4-Trimethylbenzene | ug/kg | ND | 1270 | 1220 | 1280 | 1600 | 100 | 131 | 53-150 | 22 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | ND | 3180 | 3050 | 3230 | 4060 | 101 | 133 | 57-150 | 23 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/kg | ND | 1270 | 1220 | 1210 | 1500 | 95 | 123 | 54-150 | 22 | 30 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 1270 | 1220 | 1250 | 1570 | 98 | 129 | 53-150 | 22 | 30 | |
| 1,2-Dichloroethane | ug/kg | ND | 1270 | 1220 | 1140 | 1420 | 90 | 117 | 50-150 | 22 | 30 | |
| 1,2-Dichloropropane | ug/kg | ND | 1270 | 1220 | 1260 | 1570 | 99 | 129 | 45-150 | 22 | 30 | |
| 1,3,5-Trimethylbenzene | ug/kg | ND | 1270 | 1220 | 1370 | 1690 | 107 | 139 | 60-150 | 21 | 30 | |
| 1,3-Dichlorobenzene | ug/kg | ND | 1270 | 1220 | 1240 | 1550 | 97 | 127 | 52-150 | 22 | 30 | |
| 1,3-Dichloropropane | ug/kg | ND | 1270 | 1220 | 1290 | 1570 | 101 | 129 | 49-150 | 19 | 30 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 1270 | 1220 | 1210 | 1520 | 95 | 125 | 53-150 | 23 | 30 | |
| 2,2-Dichloropropane | ug/kg | ND | 1270 | 1220 | 1190 | 1420 | 93 | 117 | 37-150 | 18 | 30 | |
| 2-Butanone (MEK) | ug/kg | ND | 6380 | 6090 | 6300 | 7420 | 99 | 122 | 35-150 | 16 | 30 | |
| 2-Chlorotoluene | ug/kg | ND | 1270 | 1220 | 1290 | 1610 | 101 | 132 | 50-150 | 22 | 30 | |
| 4-Chlorotoluene | ug/kg | ND | 1270 | 1220 | 1320 | 1630 | 103 | 134 | 52-150 | 21 | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND | 6380 | 6090 | 6100 | 7420 | 96 | 122 | 43-150 | 19 | 30 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3524167 3524168

| Parameter | Units | 10506026002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | ug/kg | ND | 6380 | 6090 | 6630 | 7910 | 104 | 130 | 30-150 | 18 | 30 | |
| Allyl chloride | ug/kg | ND | 1270 | 1220 | 1230 | 1460 | 96 | 120 | 30-150 | 17 | 30 | |
| Benzene | ug/kg | ND | 1270 | 1220 | 1320 | 1650 | 103 | 135 | 46-150 | 22 | 30 | |
| Bromobenzene | ug/kg | ND | 1270 | 1220 | 1220 | 1550 | 96 | 127 | 54-150 | 24 | 30 | |
| Bromochloromethane | ug/kg | ND | 1270 | 1220 | 1320 | 1560 | 103 | 128 | 45-150 | 17 | 30 | |
| Bromodichloromethane | ug/kg | ND | 1270 | 1220 | 1220 | 1530 | 96 | 125 | 52-150 | 22 | 30 | |
| Bromoform | ug/kg | ND | 1270 | 1220 | 1200 | 1520 | 94 | 125 | 51-150 | 23 | 30 | |
| Bromomethane | ug/kg | ND | 1270 | 1220 | 1140 | 1270 | 89 | 104 | 30-150 | 11 | 30 | |
| Carbon tetrachloride | ug/kg | ND | 1270 | 1220 | 1250 | 1520 | 98 | 125 | 42-150 | 20 | 30 | |
| Chlorobenzene | ug/kg | ND | 1270 | 1220 | 1250 | 1570 | 98 | 129 | 51-150 | 23 | 30 | |
| Chloroethane | ug/kg | ND | 1270 | 1220 | 964 | 1110 | 76 | 91 | 30-150 | 14 | 30 | |
| Chloroform | ug/kg | ND | 1270 | 1220 | 1220 | 1520 | 95 | 125 | 50-150 | 22 | 30 | |
| Chloromethane | ug/kg | ND | 1270 | 1220 | 1000 | 1080 | 78 | 89 | 30-150 | 8 | 30 | |
| cis-1,2-Dichloroethene | ug/kg | ND | 1270 | 1220 | 1300 | 1610 | 102 | 132 | 45-150 | 21 | 30 | |
| cis-1,3-Dichloropropene | ug/kg | ND | 1270 | 1220 | 1200 | 1530 | 94 | 126 | 48-150 | 25 | 30 | |
| Dibromochloromethane | ug/kg | ND | 1270 | 1220 | 1180 | 1460 | 93 | 120 | 51-150 | 21 | 30 | |
| Dibromomethane | ug/kg | ND | 1270 | 1220 | 1140 | 1460 | 89 | 120 | 53-150 | 25 | 30 | |
| Dichlorodifluoromethane | ug/kg | ND | 1270 | 1220 | 731 | 649 | 57 | 53 | 30-125 | 12 | 30 | |
| Dichlorofluoromethane | ug/kg | ND | 1270 | 1220 | 1600 | 2480 | 126 | 204 | 41-150 | 43 | 30 | M1,R1 |
| Diethyl ether (Ethyl ether) | ug/kg | ND | 1270 | 1220 | 1160 | 1500 | 91 | 123 | 35-138 | 25 | 30 | |
| Ethylbenzene | ug/kg | ND | 1270 | 1220 | 1240 | 1560 | 98 | 128 | 59-150 | 23 | 30 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 1270 | 1220 | 1340 | 1640 | 105 | 135 | 58-150 | 20 | 30 | |
| Isopropylbenzene (Cumene) | ug/kg | ND | 1270 | 1220 | 1270 | 1570 | 99 | 129 | 50-150 | 22 | 30 | |
| Methyl-tert-butyl ether | ug/kg | ND | 1270 | 1220 | 1270 | 1570 | 100 | 129 | 50-150 | 21 | 30 | |
| Methylene Chloride | ug/kg | ND | 1270 | 1220 | 1320 | 1560 | 94 | 118 | 37-150 | 17 | 30 | |
| n-Butylbenzene | ug/kg | ND | 1270 | 1220 | 1290 | 1590 | 102 | 131 | 48-150 | 21 | 30 | |
| n-Propylbenzene | ug/kg | ND | 1270 | 1220 | 1400 | 1820 | 110 | 149 | 54-150 | 26 | 30 | |
| Naphthalene | ug/kg | ND | 1270 | 1220 | 1410 | 1760 | 111 | 144 | 50-150 | 22 | 30 | |
| p-Isopropyltoluene | ug/kg | ND | 1270 | 1220 | 1350 | 1670 | 106 | 137 | 51-150 | 21 | 30 | |
| sec-Butylbenzene | ug/kg | ND | 1270 | 1220 | 1310 | 1630 | 102 | 134 | 52-150 | 22 | 30 | |
| Styrene | ug/kg | ND | 1270 | 1220 | 1310 | 1610 | 103 | 132 | 52-150 | 21 | 30 | |
| tert-Butylbenzene | ug/kg | ND | 1270 | 1220 | 1430 | 1790 | 112 | 147 | 54-150 | 22 | 30 | |
| Tetrachloroethene | ug/kg | ND | 1270 | 1220 | 1300 | 1640 | 102 | 135 | 50-150 | 23 | 30 | |
| Tetrahydrofuran | ug/kg | ND | 12700 | 12200 | 14800 | 18500 | 116 | 152 | 49-150 | 22 | 30 | M1 |
| Toluene | ug/kg | ND | 1270 | 1220 | 1290 | 1620 | 101 | 133 | 55-150 | 23 | 30 | |
| trans-1,2-Dichloroethene | ug/kg | ND | 1270 | 1220 | 1360 | 1620 | 106 | 133 | 43-150 | 17 | 30 | |
| trans-1,3-Dichloropropene | ug/kg | ND | 1270 | 1220 | 1260 | 1510 | 99 | 124 | 49-150 | 18 | 30 | |
| Trichloroethene | ug/kg | ND | 1270 | 1220 | 1280 | 1620 | 100 | 133 | 43-150 | 24 | 30 | |
| Trichlorofluoromethane | ug/kg | ND | 1270 | 1220 | 910 | 1020 | 71 | 84 | 30-150 | 11 | 30 | |
| Vinyl chloride | ug/kg | ND | 1270 | 1220 | 1070 | 1190 | 84 | 98 | 30-150 | 11 | 30 | |
| Xylene (Total) | ug/kg | ND | 3820 | 3660 | 4040 | 4970 | 106 | 136 | 60-150 | 20 | 30 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | | | | 94 | 94 | 75-125 | | | |
| 4-Bromofluorobenzene (S) | %. | | | | | | 101 | 102 | 75-125 | | | |
| Toluene-d8 (S) | %. | | | | | | 100 | 101 | 75-125 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 654977 Analysis Method: EPA 8082A
QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 10505336001, 10505336002

METHOD BLANK: 3520305 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | ND | 33.0 | 9.2 | 01/21/20 19:51 | |
| PCB-1221 (Aroclor 1221) | ug/kg | ND | 33.0 | 11.6 | 01/21/20 19:51 | |
| PCB-1232 (Aroclor 1232) | ug/kg | ND | 33.0 | 13.2 | 01/21/20 19:51 | |
| PCB-1242 (Aroclor 1242) | ug/kg | ND | 33.0 | 11.2 | 01/21/20 19:51 | |
| PCB-1248 (Aroclor 1248) | ug/kg | ND | 33.0 | 9.9 | 01/21/20 19:51 | |
| PCB-1254 (Aroclor 1254) | ug/kg | ND | 33.0 | 9.7 | 01/21/20 19:51 | |
| PCB-1260 (Aroclor 1260) | ug/kg | ND | 33.0 | 7.9 | 01/21/20 19:51 | |
| PCB-1262 (Aroclor 1262) | ug/kg | ND | 33.0 | 11.4 | 01/21/20 19:51 | |
| PCB-1268 (Aroclor 1268) | ug/kg | ND | 33.0 | 10.7 | 01/21/20 19:51 | |
| Decachlorobiphenyl (S) | %. | 86 | 48-139 | | 01/21/20 19:51 | |
| Tetrachloro-m-xylene (S) | %. | 101 | 46-146 | | 01/21/20 19:51 | |

LABORATORY CONTROL SAMPLE: 3520306

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | 667 | 612 | 92 | 68-125 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 667 | 590 | 89 | 69-125 | |
| Decachlorobiphenyl (S) | %. | | | 89 | 48-139 | |
| Tetrachloro-m-xylene (S) | %. | | | 105 | 46-146 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3520356 3520357

| Parameter | Units | 10505336001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | ND | 741 | 741 | 666 | 612 | 90 | 83 | 49-125 | 8 | 30 | |
| PCB-1260 (Aroclor 1260) | ug/kg | ND | 741 | 741 | 650 | 616 | 88 | 83 | 43-125 | 5 | 30 | |
| Decachlorobiphenyl (S) | %. | | | | | | 85 | 82 | 48-139 | | | |
| Tetrachloro-m-xylene (S) | %. | | | | | | 97 | 89 | 46-146 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 654984 Analysis Method: EPA 8270D
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid MSSV
Associated Lab Samples: 10505336001, 10505336002

METHOD BLANK: 3520329 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/kg | ND | 330 | 36.2 | 01/17/20 09:05 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 330 | 34.6 | 01/17/20 09:05 | |
| 1,2-Diphenylhydrazine | ug/kg | ND | 330 | 40.5 | 01/17/20 09:05 | |
| 1,3-Dichlorobenzene | ug/kg | ND | 330 | 48.3 | 01/17/20 09:05 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 330 | 36.7 | 01/17/20 09:05 | |
| 1-Methylnaphthalene | ug/kg | ND | 330 | 30.5 | 01/17/20 09:05 | |
| 2,4,5-Trichlorophenol | ug/kg | ND | 330 | 42.5 | 01/17/20 09:05 | |
| 2,4,6-Trichlorophenol | ug/kg | ND | 330 | 51.1 | 01/17/20 09:05 | |
| 2,4-Dichlorophenol | ug/kg | ND | 330 | 55.1 | 01/17/20 09:05 | |
| 2,4-Dimethylphenol | ug/kg | ND | 330 | 129 | 01/17/20 09:05 | |
| 2,4-Dinitrophenol | ug/kg | ND | 330 | 154 | 01/17/20 09:05 | |
| 2,4-Dinitrotoluene | ug/kg | ND | 330 | 42.0 | 01/17/20 09:05 | |
| 2,6-Dinitrotoluene | ug/kg | ND | 330 | 43.7 | 01/17/20 09:05 | |
| 2-Chloronaphthalene | ug/kg | ND | 330 | 29.2 | 01/17/20 09:05 | |
| 2-Chlorophenol | ug/kg | ND | 330 | 37.6 | 01/17/20 09:05 | |
| 2-Methylnaphthalene | ug/kg | ND | 330 | 29.8 | 01/17/20 09:05 | |
| 2-Methylphenol(o-Cresol) | ug/kg | ND | 330 | 43.2 | 01/17/20 09:05 | |
| 2-Nitroaniline | ug/kg | ND | 330 | 82.8 | 01/17/20 09:05 | |
| 2-Nitrophenol | ug/kg | ND | 330 | 40.2 | 01/17/20 09:05 | |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | ND | 660 | 18.6 | 01/17/20 09:05 | |
| 3,3'-Dichlorobenzidine | ug/kg | ND | 330 | 111 | 01/17/20 09:05 | |
| 3-Nitroaniline | ug/kg | ND | 330 | 36.0 | 01/17/20 09:05 | |
| 4,6-Dinitro-2-methylphenol | ug/kg | ND | 1700 | 327 | 01/17/20 09:05 | |
| 4-Bromophenylphenyl ether | ug/kg | ND | 330 | 39.3 | 01/17/20 09:05 | |
| 4-Chloro-3-methylphenol | ug/kg | ND | 330 | 52.8 | 01/17/20 09:05 | |
| 4-Chloroaniline | ug/kg | ND | 330 | 87.9 | 01/17/20 09:05 | |
| 4-Chlorophenylphenyl ether | ug/kg | ND | 330 | 40.9 | 01/17/20 09:05 | |
| 4-Nitroaniline | ug/kg | ND | 330 | 48.2 | 01/17/20 09:05 | |
| 4-Nitrophenol | ug/kg | ND | 330 | 64.0 | 01/17/20 09:05 | |
| Acenaphthene | ug/kg | ND | 330 | 35.2 | 01/17/20 09:05 | |
| Acenaphthylene | ug/kg | ND | 330 | 42.1 | 01/17/20 09:05 | |
| Anthracene | ug/kg | ND | 330 | 38.7 | 01/17/20 09:05 | |
| Benzo(a)anthracene | ug/kg | ND | 330 | 33.9 | 01/17/20 09:05 | |
| Benzo(a)pyrene | ug/kg | ND | 330 | 37.4 | 01/17/20 09:05 | |
| Benzo(b)fluoranthene | ug/kg | ND | 330 | 32.3 | 01/17/20 09:05 | |
| Benzo(g,h,i)perylene | ug/kg | ND | 330 | 35.3 | 01/17/20 09:05 | |
| Benzo(k)fluoranthene | ug/kg | ND | 330 | 41.2 | 01/17/20 09:05 | |
| bis(2-Chloroethoxy)methane | ug/kg | ND | 330 | 33.8 | 01/17/20 09:05 | |
| bis(2-Chloroethyl) ether | ug/kg | ND | 330 | 53.1 | 01/17/20 09:05 | |
| bis(2-Chloroisopropyl) ether | ug/kg | ND | 330 | 34.0 | 01/17/20 09:05 | |
| bis(2-Ethylhexyl)phthalate | ug/kg | ND | 330 | 68.8 | 01/17/20 09:05 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

METHOD BLANK: 3520329 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Butylbenzylphthalate | ug/kg | ND | 330 | 30.2 | 01/17/20 09:05 | |
| Carbazole | ug/kg | ND | 330 | 27.4 | 01/17/20 09:05 | |
| Chrysene | ug/kg | ND | 330 | 34.8 | 01/17/20 09:05 | |
| Di-n-butylphthalate | ug/kg | ND | 330 | 45.2 | 01/17/20 09:05 | |
| Di-n-octylphthalate | ug/kg | ND | 330 | 38.3 | 01/17/20 09:05 | |
| Dibenz(a,h)anthracene | ug/kg | ND | 330 | 35.1 | 01/17/20 09:05 | |
| Dibenzofuran | ug/kg | ND | 330 | 41.8 | 01/17/20 09:05 | |
| Diethylphthalate | ug/kg | ND | 330 | 29.4 | 01/17/20 09:05 | |
| Dimethylphthalate | ug/kg | ND | 330 | 44.8 | 01/17/20 09:05 | |
| Fluoranthene | ug/kg | ND | 330 | 37.9 | 01/17/20 09:05 | |
| Fluorene | ug/kg | ND | 330 | 151 | 01/17/20 09:05 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 330 | 50.2 | 01/17/20 09:05 | |
| Hexachlorobenzene | ug/kg | ND | 330 | 53.8 | 01/17/20 09:05 | |
| Hexachloroethane | ug/kg | ND | 330 | 42.9 | 01/17/20 09:05 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | ND | 330 | 19.9 | 01/17/20 09:05 | |
| Isophorone | ug/kg | ND | 330 | 25.4 | 01/17/20 09:05 | |
| N-Nitroso-di-n-propylamine | ug/kg | ND | 330 | 151 | 01/17/20 09:05 | |
| N-Nitrosodimethylamine | ug/kg | ND | 330 | 40.5 | 01/17/20 09:05 | |
| N-Nitrosodiphenylamine | ug/kg | ND | 330 | 21.4 | 01/17/20 09:05 | |
| Naphthalene | ug/kg | ND | 330 | 25.4 | 01/17/20 09:05 | |
| Nitrobenzene | ug/kg | ND | 330 | 36.3 | 01/17/20 09:05 | |
| Pentachlorophenol | ug/kg | ND | 670 | 193 | 01/17/20 09:05 | |
| Phenanthrene | ug/kg | ND | 330 | 38.4 | 01/17/20 09:05 | |
| Phenol | ug/kg | ND | 330 | 44.5 | 01/17/20 09:05 | |
| Pyrene | ug/kg | ND | 330 | 25.1 | 01/17/20 09:05 | |
| 2,4,6-Tribromophenol (S) | %. | 77 | 38-125 | | 01/17/20 09:05 | |
| 2-Fluorobiphenyl (S) | %. | 66 | 58-125 | | 01/17/20 09:05 | |
| 2-Fluorophenol (S) | %. | 76 | 37-125 | | 01/17/20 09:05 | |
| Nitrobenzene-d5 (S) | %. | 70 | 42-125 | | 01/17/20 09:05 | |
| p-Terphenyl-d14 (S) | %. | 88 | 65-125 | | 01/17/20 09:05 | |
| Phenol-d6 (S) | %. | 70 | 45-125 | | 01/17/20 09:05 | |

LABORATORY CONTROL SAMPLE: 3520330

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/kg | 1670 | 1260 | 75 | 43-125 | |
| 1,2-Dichlorobenzene | ug/kg | 1670 | 1270 | 76 | 37-125 | |
| 1,2-Diphenylhydrazine | ug/kg | 1670 | 1440 | 86 | 56-125 | |
| 1,3-Dichlorobenzene | ug/kg | 1670 | 1240 | 74 | 35-125 | |
| 1,4-Dichlorobenzene | ug/kg | 1670 | 1250 | 75 | 35-125 | |
| 1-Methylnaphthalene | ug/kg | 1670 | 1380 | 83 | 57-125 | |
| 2,4,5-Trichlorophenol | ug/kg | 1670 | 1410 | 85 | 56-125 | |
| 2,4,6-Trichlorophenol | ug/kg | 1670 | 1400 | 84 | 55-125 | |
| 2,4-Dichlorophenol | ug/kg | 1670 | 1350 | 81 | 58-125 | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

LABORATORY CONTROL SAMPLE: 3520330

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | ug/kg | 1670 | 1320 | 79 | 50-125 | |
| 2,4-Dinitrophenol | ug/kg | 1670 | 1090 | 65 | 30-136 | |
| 2,4-Dinitrotoluene | ug/kg | 1670 | 1460 | 88 | 53-125 | |
| 2,6-Dinitrotoluene | ug/kg | 1670 | 1440 | 86 | 55-125 | |
| 2-Chloronaphthalene | ug/kg | 1670 | 1390 | 83 | 54-125 | |
| 2-Chlorophenol | ug/kg | 1670 | 1300 | 78 | 43-125 | |
| 2-Methylnaphthalene | ug/kg | 1670 | 1380 | 83 | 55-125 | |
| 2-Methylphenol(o-Cresol) | ug/kg | 1670 | 1360 | 81 | 49-125 | |
| 2-Nitroaniline | ug/kg | 1670 | 1420 | 85 | 55-125 | |
| 2-Nitrophenol | ug/kg | 1670 | 1330 | 80 | 49-125 | |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | 1670 | 1420 | 85 | 54-125 | |
| 3,3'-Dichlorobenzidine | ug/kg | 1670 | 1150 | 69 | 56-125 | |
| 3-Nitroaniline | ug/kg | 1670 | 1090 | 65 | 47-125 | |
| 4,6-Dinitro-2-methylphenol | ug/kg | 1670 | 1220J | 73 | 30-138 | |
| 4-Bromophenylphenyl ether | ug/kg | 1670 | 1440 | 86 | 67-125 | |
| 4-Chloro-3-methylphenol | ug/kg | 1670 | 1440 | 86 | 64-125 | |
| 4-Chloroaniline | ug/kg | 1670 | 922 | 55 | 40-125 | |
| 4-Chlorophenylphenyl ether | ug/kg | 1670 | 1420 | 85 | 58-125 | |
| 4-Nitroaniline | ug/kg | 1670 | 1320 | 79 | 56-125 | |
| 4-Nitrophenol | ug/kg | 1670 | 1320 | 79 | 49-125 | |
| Acenaphthene | ug/kg | 1670 | 1420 | 85 | 57-125 | |
| Acenaphthylene | ug/kg | 1670 | 1410 | 84 | 59-125 | |
| Anthracene | ug/kg | 1670 | 1490 | 89 | 69-125 | |
| Benzo(a)anthracene | ug/kg | 1670 | 1450 | 87 | 68-125 | |
| Benzo(a)pyrene | ug/kg | 1670 | 1510 | 91 | 70-125 | |
| Benzo(b)fluoranthene | ug/kg | 1670 | 1480 | 89 | 69-125 | |
| Benzo(g,h,i)perylene | ug/kg | 1670 | 1480 | 89 | 71-125 | |
| Benzo(k)fluoranthene | ug/kg | 1670 | 1560 | 93 | 71-125 | |
| bis(2-Chloroethoxy)methane | ug/kg | 1670 | 1320 | 79 | 52-125 | |
| bis(2-Chloroethyl) ether | ug/kg | 1670 | 1290 | 77 | 37-125 | |
| bis(2-Chloroisopropyl) ether | ug/kg | 1670 | 1280 | 77 | 30-125 | |
| bis(2-Ethylhexyl)phthalate | ug/kg | 1670 | 1520 | 91 | 69-125 | |
| Butylbenzylphthalate | ug/kg | 1670 | 1500 | 90 | 69-125 | |
| Carbazole | ug/kg | 1670 | 1480 | 89 | 70-125 | |
| Chrysene | ug/kg | 1670 | 1500 | 90 | 70-125 | |
| Di-n-butylphthalate | ug/kg | 1670 | 1490 | 90 | 70-125 | |
| Di-n-octylphthalate | ug/kg | 1670 | 1560 | 93 | 67-125 | |
| Dibenz(a,h)anthracene | ug/kg | 1670 | 1490 | 89 | 70-125 | |
| Dibenzofuran | ug/kg | 1670 | 1430 | 86 | 59-125 | |
| Diethylphthalate | ug/kg | 1670 | 1440 | 86 | 59-125 | |
| Dimethylphthalate | ug/kg | 1670 | 1460 | 87 | 60-125 | |
| Fluoranthene | ug/kg | 1670 | 1480 | 89 | 69-125 | |
| Fluorene | ug/kg | 1670 | 1470 | 88 | 60-125 | |
| Hexachloro-1,3-butadiene | ug/kg | 1670 | 1230 | 74 | 39-125 | |
| Hexachlorobenzene | ug/kg | 1670 | 1420 | 85 | 66-125 | |
| Hexachloroethane | ug/kg | 1670 | 1230 | 74 | 30-125 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | 1670 | 1490 | 90 | 70-125 | |

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(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

LABORATORY CONTROL SAMPLE: 3520330

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Isophorone | ug/kg | 1670 | 1370 | 82 | 56-125 | |
| N-Nitroso-di-n-propylamine | ug/kg | 1670 | 1430 | 86 | 49-125 | |
| N-Nitrosodimethylamine | ug/kg | 1670 | 1400 | 84 | 30-125 | |
| N-Nitrosodiphenylamine | ug/kg | 1670 | 1480 | 89 | 68-125 | |
| Naphthalene | ug/kg | 1670 | 1310 | 79 | 48-125 | |
| Nitrobenzene | ug/kg | 1670 | 1280 | 77 | 47-125 | |
| Pentachlorophenol | ug/kg | 1670 | 1310 | 79 | 36-125 | |
| Phenanthrene | ug/kg | 1670 | 1490 | 89 | 70-125 | |
| Phenol | ug/kg | 1670 | 1320 | 79 | 49-125 | |
| Pyrene | ug/kg | 1670 | 1500 | 90 | 71-125 | |
| 2,4,6-Tribromophenol (S) | %. | | | 88 | 38-125 | |
| 2-Fluorobiphenyl (S) | %. | | | 76 | 58-125 | |
| 2-Fluorophenol (S) | %. | | | 81 | 37-125 | |
| Nitrobenzene-d5 (S) | %. | | | 74 | 42-125 | |
| p-Terphenyl-d14 (S) | %. | | | 85 | 65-125 | |
| Phenol-d6 (S) | %. | | | 77 | 45-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3520474 3520475

| Parameter | Units | 10505336001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/kg | ND | 1840 | 1860 | 1220 | 1400 | 66 | 76 | 48-125 | 14 | 30 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 1840 | 1860 | 1190 | 1420 | 64 | 77 | 37-125 | 18 | 30 | |
| 1,2-Diphenylhydrazine | ug/kg | ND | 1840 | 1860 | 1580 | 1620 | 85 | 87 | 51-125 | 2 | 30 | |
| 1,3-Dichlorobenzene | ug/kg | ND | 1840 | 1860 | 1160 | 1410 | 63 | 76 | 31-125 | 19 | 30 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 1840 | 1860 | 1160 | 1420 | 63 | 76 | 36-125 | 19 | 30 | |
| 1-Methylnaphthalene | ug/kg | ND | 1840 | 1860 | 1440 | 1500 | 78 | 81 | 58-125 | 4 | 30 | |
| 2,4,5-Trichlorophenol | ug/kg | ND | 1840 | 1860 | 1530 | 1560 | 83 | 84 | 49-125 | 2 | 30 | |
| 2,4,6-Trichlorophenol | ug/kg | ND | 1840 | 1860 | 1520 | 1550 | 82 | 84 | 50-125 | 2 | 30 | |
| 2,4-Dichlorophenol | ug/kg | ND | 1840 | 1860 | 1470 | 1460 | 79 | 79 | 60-125 | 0 | 30 | |
| 2,4-Dimethylphenol | ug/kg | ND | 1840 | 1860 | 1410 | 1430 | 76 | 77 | 44-125 | 2 | 30 | |
| 2,4-Dinitrophenol | ug/kg | ND | 1840 | 1860 | 777 | 844 | 42 | 46 | 30-125 | 8 | 30 | |
| 2,4-Dinitrotoluene | ug/kg | ND | 1840 | 1860 | 1560 | 1620 | 84 | 88 | 30-129 | 4 | 30 | |
| 2,6-Dinitrotoluene | ug/kg | ND | 1840 | 1860 | 1540 | 1570 | 83 | 85 | 30-125 | 2 | 30 | |
| 2-Chloronaphthalene | ug/kg | ND | 1840 | 1860 | 1450 | 1510 | 78 | 82 | 53-125 | 4 | 30 | |
| 2-Chlorophenol | ug/kg | ND | 1840 | 1860 | 1250 | 1450 | 67 | 78 | 51-125 | 15 | 30 | |
| 2-Methylnaphthalene | ug/kg | ND | 1840 | 1860 | 1470 | 1540 | 80 | 83 | 55-125 | 4 | 30 | |
| 2-Methylphenol(o-Cresol) | ug/kg | ND | 1840 | 1860 | 1430 | 1450 | 77 | 78 | 54-125 | 2 | 30 | |
| 2-Nitroaniline | ug/kg | ND | 1840 | 1860 | 1590 | 1610 | 86 | 87 | 52-125 | 1 | 30 | |
| 2-Nitrophenol | ug/kg | ND | 1840 | 1860 | 1310 | 1490 | 71 | 80 | 30-125 | 13 | 30 | |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | ND | 1840 | 1860 | 1470 | 1530 | 80 | 83 | 58-125 | 4 | 30 | |
| 3,3'-Dichlorobenzidine | ug/kg | ND | 1840 | 1860 | 1630 | 1600 | 88 | 86 | 30-134 | 2 | 30 | |
| 3-Nitroaniline | ug/kg | ND | 1840 | 1860 | 1360 | 1320 | 74 | 71 | 35-125 | 3 | 30 | |
| 4,6-Dinitro-2-methylphenol | ug/kg | ND | 1840 | 1860 | 909J | 1020J | 49 | 55 | 30-125 | | 30 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3520474 3520475

| Parameter | Units | 10505336001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Bromophenylphenyl ether | ug/kg | ND | 1840 | 1860 | 1520 | 1580 | 82 | 86 | 63-125 | 4 | 30 | |
| 4-Chloro-3-methylphenol | ug/kg | ND | 1840 | 1860 | 1620 | 1610 | 88 | 87 | 60-125 | 1 | 30 | |
| 4-Chloroaniline | ug/kg | ND | 1840 | 1860 | 1200 | 1150 | 65 | 62 | 30-125 | 5 | 30 | |
| 4-Chlorophenylphenyl ether | ug/kg | ND | 1840 | 1860 | 1550 | 1580 | 84 | 86 | 54-125 | 2 | 30 | |
| 4-Nitroaniline | ug/kg | ND | 1840 | 1860 | 1420 | 1440 | 77 | 78 | 46-125 | 2 | 30 | |
| 4-Nitrophenol | ug/kg | ND | 1840 | 1860 | 1560 | 1570 | 84 | 85 | 33-125 | 0 | 30 | |
| Acenaphthene | ug/kg | ND | 1840 | 1860 | 1520 | 1570 | 82 | 85 | 52-125 | 3 | 30 | |
| Acenaphthylene | ug/kg | ND | 1840 | 1860 | 1510 | 1540 | 82 | 83 | 58-125 | 2 | 30 | |
| Anthracene | ug/kg | ND | 1840 | 1860 | 1570 | 1620 | 85 | 88 | 69-125 | 4 | 30 | |
| Benzo(a)anthracene | ug/kg | ND | 1840 | 1860 | 1530 | 1590 | 83 | 86 | 71-125 | 4 | 30 | |
| Benzo(a)pyrene | ug/kg | ND | 1840 | 1860 | 1570 | 1650 | 85 | 89 | 69-125 | 5 | 30 | |
| Benzo(b)fluoranthene | ug/kg | ND | 1840 | 1860 | 1580 | 1670 | 85 | 90 | 68-125 | 6 | 30 | |
| Benzo(g,h,i)perylene | ug/kg | ND | 1840 | 1860 | 1530 | 1650 | 83 | 89 | 67-125 | 7 | 30 | |
| Benzo(k)fluoranthene | ug/kg | ND | 1840 | 1860 | 1520 | 1600 | 82 | 87 | 69-125 | 5 | 30 | |
| bis(2-Chloroethoxy)methane | ug/kg | ND | 1840 | 1860 | 1380 | 1480 | 75 | 80 | 58-125 | 7 | 30 | |
| bis(2-Chloroethyl) ether | ug/kg | ND | 1840 | 1860 | 1200 | 1450 | 65 | 78 | 41-125 | 19 | 30 | |
| bis(2-Chloroisopropyl) ether | ug/kg | ND | 1840 | 1860 | 1200 | 1440 | 65 | 78 | 34-125 | 18 | 30 | |
| bis(2-Ethylhexyl)phthalate | ug/kg | ND | 1840 | 1860 | 1650 | 1700 | 89 | 92 | 62-125 | 4 | 30 | |
| Butylbenzylphthalate | ug/kg | ND | 1840 | 1860 | 1610 | 1670 | 87 | 90 | 63-125 | 4 | 30 | |
| Carbazole | ug/kg | ND | 1840 | 1860 | 1560 | 1640 | 84 | 89 | 68-125 | 5 | 30 | |
| Chrysene | ug/kg | ND | 1840 | 1860 | 1590 | 1640 | 86 | 89 | 71-125 | 3 | 30 | |
| Di-n-butylphthalate | ug/kg | ND | 1840 | 1860 | 1590 | 1650 | 86 | 89 | 63-125 | 4 | 30 | |
| Di-n-octylphthalate | ug/kg | ND | 1840 | 1860 | 1710 | 1760 | 93 | 95 | 64-125 | 3 | 30 | |
| Dibenz(a,h)anthracene | ug/kg | ND | 1840 | 1860 | 1550 | 1650 | 84 | 89 | 64-125 | 6 | 30 | |
| Dibenzofuran | ug/kg | ND | 1840 | 1860 | 1550 | 1600 | 84 | 87 | 56-125 | 3 | 30 | |
| Diethylphthalate | ug/kg | ND | 1840 | 1860 | 1570 | 1620 | 85 | 88 | 52-125 | 3 | 30 | |
| Dimethylphthalate | ug/kg | ND | 1840 | 1860 | 1590 | 1630 | 86 | 88 | 55-125 | 2 | 30 | |
| Fluoranthene | ug/kg | ND | 1840 | 1860 | 1580 | 1640 | 86 | 89 | 63-125 | 4 | 30 | |
| Fluorene | ug/kg | ND | 1840 | 1860 | 1560 | 1610 | 85 | 87 | 55-125 | 3 | 30 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 1840 | 1860 | 1150 | 1380 | 62 | 75 | 41-125 | 18 | 30 | |
| Hexachlorobenzene | ug/kg | ND | 1840 | 1860 | 1490 | 1550 | 80 | 84 | 61-125 | 4 | 30 | |
| Hexachloroethane | ug/kg | ND | 1840 | 1860 | 1100 | 1360 | 59 | 73 | 30-125 | 21 | 30 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | ND | 1840 | 1860 | 1530 | 1620 | 83 | 87 | 67-125 | 6 | 30 | |
| Isophorone | ug/kg | ND | 1840 | 1860 | 1470 | 1520 | 79 | 82 | 59-125 | 3 | 30 | |
| N-Nitroso-di-n-propylamine | ug/kg | ND | 1840 | 1860 | 1470 | 1590 | 79 | 86 | 53-125 | 8 | 30 | |
| N-Nitrosodimethylamine | ug/kg | ND | 1840 | 1860 | 1340 | 1600 | 72 | 87 | 30-125 | 18 | 30 | |
| N-Nitrosodiphenylamine | ug/kg | ND | 1840 | 1860 | 1560 | 1630 | 84 | 88 | 63-125 | 4 | 30 | |
| Naphthalene | ug/kg | ND | 1840 | 1860 | 1300 | 1460 | 70 | 79 | 51-125 | 11 | 30 | |
| Nitrobenzene | ug/kg | ND | 1840 | 1860 | 1290 | 1460 | 70 | 79 | 49-125 | 12 | 30 | |
| Pentachlorophenol | ug/kg | ND | 1840 | 1860 | 1480 | 1510 | 80 | 82 | 30-125 | 2 | 30 | |
| Phenanthrene | ug/kg | ND | 1840 | 1860 | 1570 | 1640 | 85 | 89 | 67-125 | 5 | 30 | |
| Phenol | ug/kg | ND | 1840 | 1860 | 1380 | 1490 | 75 | 80 | 55-125 | 8 | 30 | |
| Pyrene | ug/kg | ND | 1840 | 1860 | 1570 | 1630 | 85 | 88 | 70-125 | 4 | 30 | |
| 2,4,6-Tribromophenol (S) | %. | | | | | | 85 | 86 | 38-125 | | | |
| 2-Fluorobiphenyl (S) | %. | | | | | | 73 | 75 | 58-125 | | | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3520474 3520475

| Parameter | Units | 10505336001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol (S) | %. | | | | | | 68 | 80 | 37-125 | | | |
| Nitrobenzene-d5 (S) | %. | | | | | | 66 | 72 | 42-125 | | | |
| p-Terphenyl-d14 (S) | %. | | | | | | 82 | 82 | 65-125 | | | |
| Phenol-d6 (S) | %. | | | | | | 71 | 75 | 45-125 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 654917 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 10505336001, 10505336002

METHOD BLANK: 3520163 Matrix: Solid
Associated Lab Samples: 10505336001, 10505336002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| WDRO C10-C28 | mg/kg | ND | 10.0 | 3.9 | 01/19/20 13:55 | |
| n-Triacontane (S) | %. | 92 | 50-150 | | 01/19/20 13:55 | |

LABORATORY CONTROL SAMPLE & LCSD: 3520164 3520165

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| WDRO C10-C28 | mg/kg | 80 | 69.6 | 68.2 | 87 | 85 | 70-120 | 2 | 20 | |
| n-Triacontane (S) | %. | | | | 95 | 93 | 50-150 | | | |

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## QUALITY CONTROL DATA

Project: 60618753 P1007
Pace Project No.: 10505336

QC Batch: 656198 Analysis Method: EPA 9045D
QC Batch Method: EPA 9045D Analysis Description: 9045D pH
Associated Lab Samples: 10505336001, 10505336002

LABORATORY CONTROL SAMPLE: 3525145

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 5 | 5.1 | 101 | 98-102 | |

SAMPLE DUPLICATE: 3525146

| Parameter | Units | 10505336001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 7.7 | 7.8 | 1 | 3 | |

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# QUALIFIERS

Project: 60618753 P1007
Pace Project No.: 10505336

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D5 | The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| MN | The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule. |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request. |
| R1 | RPD value was outside control limits. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60618753 P1007
Pace Project No.: 10505336

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10505336001** | **LAKEELMO-IDW-01-011420** | EPA 3550 | 654977 | EPA 8082A | 655691 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | EPA 3550 | 654977 | EPA 8082A | 655691 |
| **10505336001** | **LAKEELMO-IDW-01-011420** | WI MOD DRO | 654917 | WI MOD DRO | 655261 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | WI MOD DRO | 654917 | WI MOD DRO | 655261 |
| **10505336001** | **LAKEELMO-IDW-01-011420** | EPA 3050B | 654894 | EPA 6010D | 655164 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | EPA 3050B | 654894 | EPA 6010D | 655164 |
| **10505336001** | **LAKEELMO-IDW-01-011420** | EPA 7471B | 654905 | EPA 7471B | 655215 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | EPA 7471B | 654905 | EPA 7471B | 655215 |
| **10505336001** | **LAKEELMO-IDW-01-011420** | ASTM D2974 | 655514 | | |
| **10505336002** | **LAKEELMO-IDW-02-011420** | ASTM D2974 | 655514 | | |
| **10505336001** | **LAKEELMO-IDW-01-011420** | EPA 3550 | 654984 | EPA 8270D | 655153 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | EPA 3550 | 654984 | EPA 8270D | 655153 |
| **10505336001** | **LAKEELMO-IDW-01-011420** | EPA 5035/5030B | 655957 | EPA 8260B | 656086 |
| **10505336002** | **LAKEELMO-IDW-02-011420** | EPA 5035/5030B | 655957 | EPA 8260B | 656086 |
| **10505336003** | **Trip Blank** | EPA 5035/5030B | 655957 | EPA 8260B | 656086 |
| **10505336001** | **LAKEELMO-IDW-01-011420** | EPA 9045D | 656198 | | |
| **10505336002** | **LAKEELMO-IDW-02-011420** | EPA 9045D | 656198 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2302973

| Section A Required Client Information: | Section B Required Project Information: | Section C Invoice Information: |
|---|---|---|
| Company: AECOM | Report To: Andrew Tarara | Attention: |
| Address: 800 LaSalle Ave Ste 500, Minneapolis MN | Copy To: | Company Name: |
| | | Address: |
| Email To: amanda.lanning@aecom.com | Purchase Order No.: | Pace Quote Reference: |
| Phone: Fax: | Project Name: P1007 | Pace Project Manager: |
| Requested Due Date/TAT: | Project Number: C0618753 | Pace Profile #: 22815 |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: MN

**Section D** Required Client Information

**SAMPLE ID** (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

WO#: 10505336

10505336

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | pH | Dry weight | VOC 8260 | SVOCs 8270 | DRO | Residual | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LAKEELMO-IDW-01-011420 | SL | G | 01/14/20 | 1600 | | | | 7 | X | | | | | | X | | | X | X | X | X | X | | 001 |
| 2 | LAKEELMO-IDW-02-011420 | SL | G | 01/14/20 | 1615 | | | | 7 | X | | | | | | X | | | X | X | X | X | X | | 002 |
| 3 | trip Blank 12/14 | | | | | | | | 1 | | | | | | | | | | | | | | | | 003 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS (5) Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Alex Senjem / AECom | 01/15/20 | 0751 | [signature] Pace | 1-15-20 | 751 | 0.2 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

ORIGINAL

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Alex Senjem

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 01/15/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt Form** | Document Revised: 14Nov2019 Page 1 of 1 |
|---|---|---|
| | Document No.: **F-MN-L-213-rev.30** | Pace Analytical Services - **Minneapolis** |

**Sample Condition Upon Receipt**

**Client Name:** AECOM

**Project #:** **WO#: 10505336**

**PM: TS1** **Due Date: 01/29/20**

**CLIENT: AECOM**

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

**Tracking Number:**

**Custody Seal on Cooler/Box Present?** ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

**Thermometer:** ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☑ T5(0489) **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

**Note: Each West Virginia Sample must have temp taken (no temp blanks)**

| Temp should be above freezing to 6°C | **Cooler Temp Read w/temp blank:** _____ °C | **Average Corrected Temp (no temp blank only):** ☐ See Exceptions |
|---|---|---|
| **Correction Factor:** +0.1 | **Cooler Temp Corrected w/temp blank :** 0.2 °C | _____ °C ☐ 1 Container |

**USDA Regulated Soil:** ( ☐ N/A, water sample/Other: _____ )
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☑ No

**Date/Initials of Person Examining Contents:** JE 1.15.20

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | **COMMENTS:** |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☑ Yes | ☐ No | | 1. |
| Chain of Custody Relinquished? | ☑ Yes | ☐ No | | 2. |
| Sampler Name and/or Signature on COC? | ☑ Yes | ☐ No | ☐ N/A | 3. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | | 4. |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☑ No | | 5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____ |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | | 6. |
| Sufficient Volume? | ☑ Yes | ☐ No | | 7. |
| Correct Containers Used? | ☑ Yes | ☐ No | | 8. |
| -Pace Containers Used? | ☑ Yes | ☐ No | | |
| Containers Intact? | ☐ Yes | ☐ No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ Yes | ☐ No | ☑ N/A | 10. Is sediment visible in the dissolved container? ☐ Yes ☐ No |
| Is sufficient information available to reconcile the samples to the COC? | ☑ Yes | ☐ No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| Matrix: ☐ Water ☑ Soil ☐ Oil ☐ Other _____ | | | | |
| All containers needing acid/base preservation have been checked? | ☐ Yes | ☐ No | ☑ N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) | ☐ Yes | ☐ No | ☑ N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☐ Yes | ☐ No | ☑ N/A | Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Extra labels present on soil VOA or WIDRO containers? | ☑ Yes | ☐ No | ☐ N/A | 13. **See Exception** ☐ |
| Headspace in VOA Vials (greater than 6mm)? | ☐ Yes | ☐ No | ☑ N/A | |
| Trip Blank Present? | ☑ Yes | ☐ No | ☐ N/A | 14. |
| Trip Blank Custody Seals Present? | ☑ Yes | ☐ No | ☐ N/A | Pace Trip Blank Lot # (if purchased): 111819-3 |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

**Project Manager Review:** Jina Soltani **Date:** 1/15/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: IC (2)

# APPENDIX V
# INTERPOLL
# LABORATORY
# REPORT

Interpoll Laboratories, Inc.
4500 Ball Road N.E.
Circle Pines, Minnesota 55014-1819

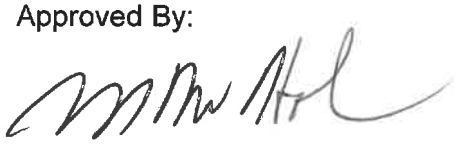
TEL: (763) 786-6020
FAX: (763) 786-7854

**ANALYTICAL RESULTS FOR**
**AECom**

**Submitted to:**
**AECom**
**800 LaSalle Avenue**
**Suite #1100**
**Minneapolis, MN 55402**

Attention: Andrew Tarara

Approved By:



Laboratory Report #38471
June 8, 2020

Gregg W. Holman, Manager
Chemistry Department

## PROJECT SUMMARY

The following laboratory report contains the analytical results for three soil samples submitted to Interpoll Laboratories, Inc. (ILI) by AECom. The samples were received at 10:40 on May 22, 2020 according to Interpoll Labs documented sample acceptance procedures. The samples were analyzed for the parameters requested on the Chain-of-Custody that accompanied the samples.

| Sample ID | ILI Sample # | Date Collected | Time Collected |
|---|---|---|---|
| RC16A-SED-Wet-6-12-01-043000 | 38471-01 | 04/30/2020 | 12:00 |
| EP21-SED-Foam-0-6-042320 | 38471-02 | 04/23/2020 | 12:40 |
| RC12-SED-Comp-0-6-01-042420 | 38471-03 | 04/24/2020 | 13:50 |

**INTERPOLL LABORATORIES, INC.**
763-786-6020

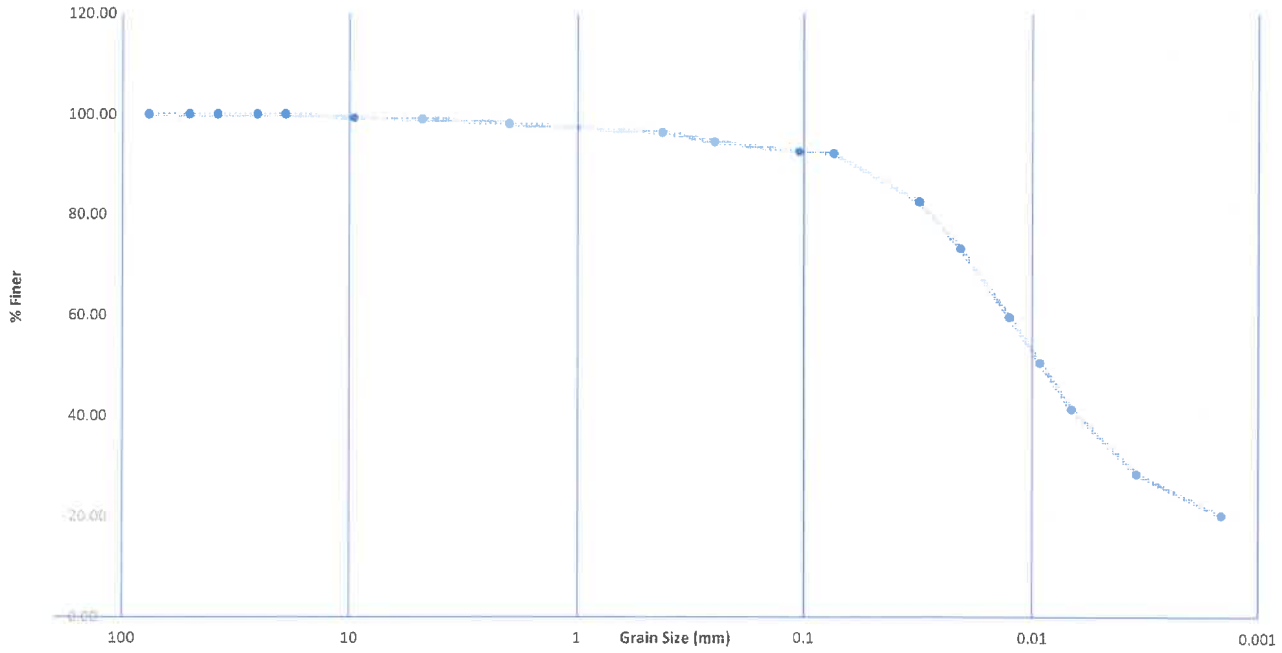
## ASTM D422-63 Analysis Results

**Interpoll Laboratories Inc. Log Number:** **38471-01**

| Coarse Sieve Analysis Results | Diameter (um) | % Passing |
|---|---|---|
| 3" Sieve | 76200 | 100.00 |
| 2" Sieve | 50800 | 100.00 |
| 1 1/2" Sieve | 38100 | 100.00 |
| 1" Sieve | 25400 | 100.00 |
| 3/4" Sieve | 19000 | 100.00 |
| 3/8" Sieve | 9500 | 99.28 |
| #4 Sieve | 4760 | 98.97 |
| #10 Sieve | 2000 | 98.08 |

| Fine Sieve Analysis Results | Diameter (um) | % Passing |
|---|---|---|
| #40 Sieve | 425 | 96.30 |
| #60 Sieve | 250 | 94.52 |
| #140 Sieve (0.105mm) | 105 | 92.57 |
| #200 Sieve (0.074mm) | 74 | 92.25 |

| Hydrometer Analysis Results: | Diameter (um) | % Passing |
|---|---|---|
| 2 Minutes | 31 | 82.51 |
| 5 Minutes | 20 | 73.34 |
| 15 Minutes | 13 | 59.59 |
| 30 Minutes | 9 | 50.42 |
| 60 Minutes | 6.7 | 41.25 |
| 250 Minutes | 3.5 | 28.42 |
| 1440 Minutes | 1.5 | 20.17 |




| % Rock | % Gravel | | | % Sand | | | | % Fines | | | Specific Gravity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Course | Fine | Total | Course | Medium | Fine | Total | Silt | Clay | Total | |
| 0.0 | 0.0 | 1.0 | 1.0 | 0.9 | 1.8 | 4.0 | 6.7 | 63.8 | 28.4 | 92.3 | 2.2465 |

# INTERPOLL LABORATORIES, INC.
763-786-6020

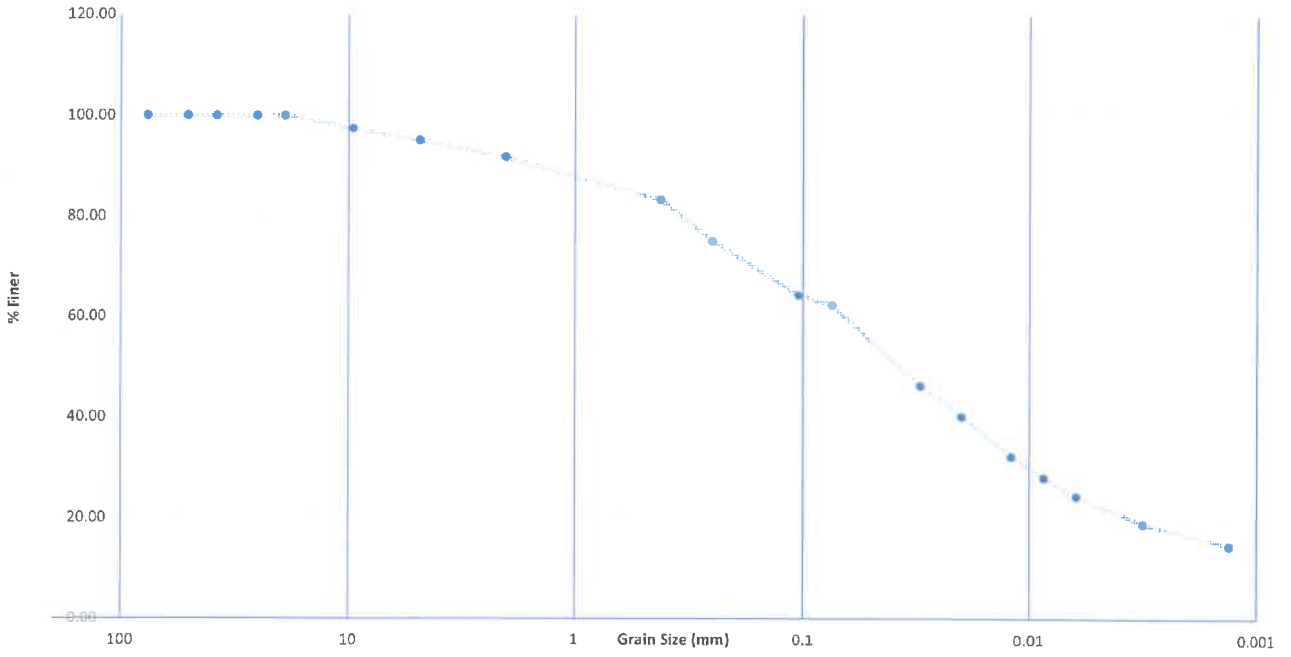
## ASTM D422-63 Analysis Results

**Interpoll Laboratories Inc. Log Number:** **38471-02**

| Coarse Sieve Analysis Results | Diameter (um) | % Passing |
|---|---|---|
| 3" Sieve | 76200 | 100.00 |
| 2" Sieve | 50800 | 100.00 |
| 1 1/2" Sieve | 38100 | 100.00 |
| 1" Sieve | 25400 | 100.00 |
| 3/4" Sieve | 19000 | 100.00 |
| 3/8" Sieve | 9500 | 97.43 |
| #4 Sieve | 4760 | 94.90 |
| #10 Sieve | 2000 | 91.71 |

| Fine Sieve Analysis Results | Diameter (um) | % Passing |
|---|---|---|
| #40 Sieve | 425 | 83.27 |
| #60 Sieve | 250 | 74.94 |
| #140 Sieve (0.105mm) | 105 | 64.30 |
| #200 Sieve (0.074mm) | 74 | 62.34 |

| Hydrometer Analysis Results: | Diameter (um) | % Passing |
|---|---|---|
| 2 Minutes | 30 | 46.30 |
| 5 Minutes | 20 | 40.20 |
| 15 Minutes | 12 | 32.28 |
| 30 Minutes | 9 | 28.02 |
| 60 Minutes | 6.2 | 24.37 |
| 250 Minutes | 3.2 | 18.88 |
| 1440 Minutes | 1.3 | 14.62 |




| % Rock | % Gravel | | | % Sand | | | | % Fines | | | Specific Gravity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Course | Fine | Total | Course | Medium | Fine | Total | Silt | Clay | Total | |
| 0.0 | 0.0 | 5.1 | 5.1 | 3.2 | 8.4 | 20.9 | 32.6 | 43.5 | 18.9 | 62.3 | 2.5003 |

**INTERPOLL LABORATORIES, INC.**
763-786-6020

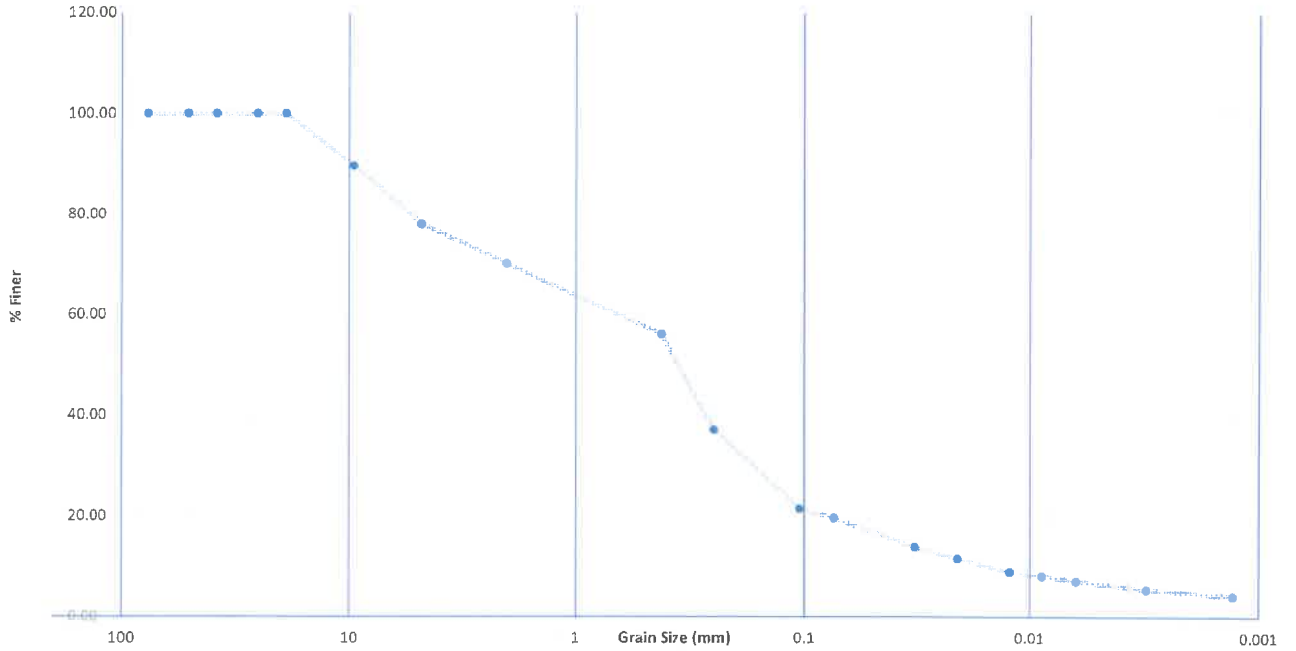
**ASTM D422-63 Analysis Results**

**Interpoll Laboratories Inc. Log Number:** **38471-03**

| Coarse Sieve Analysis Results | Diameter (um) | % Passing |
|---|---|---|
| 3" Sieve | 76200 | 100.00 |
| 2" Sieve | 50800 | 100.00 |
| 1 1/2" Sieve | 38100 | 100.00 |
| 1" Sieve | 25400 | 100.00 |
| 3/4" Sieve | 19000 | 100.00 |
| 3/8" Sieve | 9500 | 89.69 |
| #4 Sieve | 4760 | 77.97 |
| #10 Sieve | 2000 | 70.17 |

| Fine Sieve Analysis Results | Diameter (um) | % Passing |
|---|---|---|
| #40 Sieve | 425 | 56.13 |
| #60 Sieve | 250 | 37.19 |
| #140 Sieve (0.105mm) | 105 | 21.50 |
| #200 Sieve (0.074mm) | 74 | 19.65 |

| Hydrometer Analysis Results: | Diameter (um) | % Passing |
|---|---|---|
| 2 Minutes | 32 | 13.84 |
| 5 Minutes | 21 | 11.58 |
| 15 Minutes | 12 | 9.01 |
| 30 Minutes | 9 | 8.04 |
| 60 Minutes | 6.3 | 7.08 |
| 250 Minutes | 3.1 | 5.47 |
| 1440 Minutes | 1.3 | 4.18 |




| % Rock | % Gravel | | | % Sand | | | | % Fines | | | Specific Gravity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Course | Fine | Total | Course | Medium | Fine | Total | Silt | Clay | Total | |
| 0.0 | 0.0 | 22.0 | 22.0 | 7.8 | 14.0 | 36.5 | 58.3 | 14.2 | 5.5 | 19.6 | 2.6586 |

Interpool

SGS AXYS

# CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800 TOLL FREE 1-888-373-0881
Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

SGS AXYS CLIENT #:

| ***REPORT TO:*** | ***INVOICE TO:*** |
|---|---|
| Company: AECOM | Company: AECOM |
| Address: 800 Lasalle Ave Ste 1100 Minneapolis, MN, 55402 | Address: 800 Lasalle Ave Ste 1100 Minneapolis, MN 55402 |
| Contact: Andrew Tarara | Contact: Andrew Tarara |
| Phone: 612-376-2452 | Phone: 612-376-2452 |
| FAX: | FAX: |
| E-mail: andrew.tarara@aecom.com | E-mail: andrew.tarara@aecom.com |
| Project Name/Number: | Sampler's Name: |
| | Signature: |

| Client Sample Identification | Matrix | Sampling Date | Sampling Time | Container Type/No. | SGS AXYS Lab Sample ID (Lab use only) | ANALYSIS REQUESTED: GRAIN SIZE - HYDROMETER |
|---|---|---|---|---|---|---|
| RC16A-SED-WET-6-12-CI-043020 | S | 4/30/20 | 1200 | ½ gallon bag | 38471-01 | X |
| EP21-SED-FOAM-201-042320 | S | 4/23/20 | 1240 | " | -02 | X |
| RC12-SED-COMP-0.6-042420 | S | 4/24/20 | 1350 | " | -03 | X |
| | | | | | | X |

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 4/30/20 | 1200 | | 5/8/20 | 1200 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | 5/20/20 | 1730 | | 5/22/20 | 10:40 |

Remarks

| Courier | Waybill No. |
|---|---|
| | |

| Sample Receipt | Cooler |
|---|---|
| Temp °C | |
| Custody Seal # | |
| Seal Intact Y / N | |
| Sample Tags Y / N | |